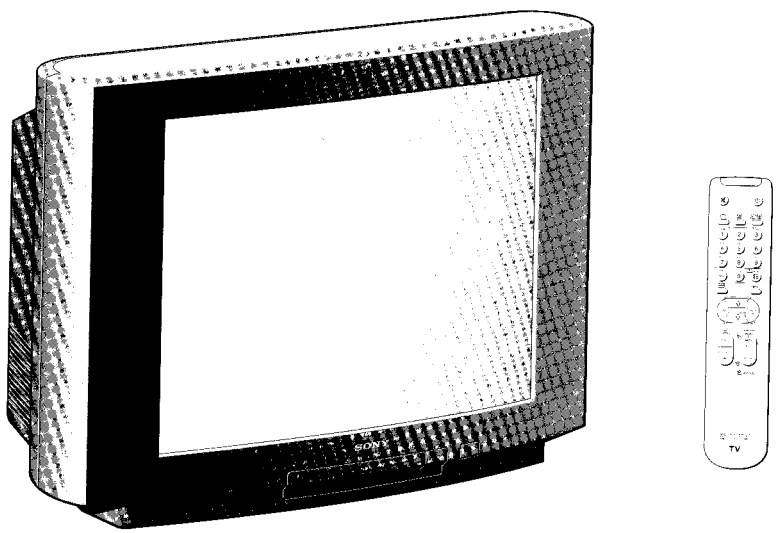
SERVICE MANUAL

BE-5 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-21C1B	RM-836	French	SCC-K36C-A
KV-21C1D	RM-836	AEP	SCC-K32E-A
KV-21C1E	RM-836	Spanish	SCC-K30E-A
KV-21C1K	RM-836	OIRT	SCC-K35E-A
KV-21C1R	RM-836	OIRT	SCC-K35F-A



MICROFILM

TRINITRON® COLOR TV

SONY®

ITEM MODEL	Television System	Channel Coverage	Colour System
French	B/G/H, L, I	L SECAM VHF: F2-F10 UHF: F21-F69 TV CABLE TV (1) VHF: B-Q UHF: S21-S44 PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 PAL I UHF: B21-B69 CABLE TV VHF: S1-S41,UHF: S01-S05	PAL, SECAM NTSC3.58/4.43 (video input only)
AEP	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, SECAM NTSC3.58/4.43 (video input only)
Spanish	B/G/H, D/K	PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, SECAM NTSC3.58/4.43 (video input only)
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, SECAM NTSC3.58/4.43 (video input only)
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: S1-S20 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H, H1, H2 D/K VHF: R01-R12 UHF: R21-R69 CABLE TV VHF: S1-S41, UHF: S01-S05	PAL, SECAM NTSC3.58/4.43 (video input only)

MODEL	21C1B	21C1D	21C1E	21C1K	21C1R
Power Consumption	75W	75W	75W	75W	75W

SPECIFICATIONS

Picture Tube — Hi-Black Trinitron
Approx. 55 cm (21 inches)
(Approx. 51 cm picture measured diagonally) 100° deflection

Rear/Front Terminals

[REAR]

21-pin Euro connector (CENELEC standard)
- Including audio/video input, RGB input

[FRONT]

- 2 Video input - phono jack
- Audio inputs - phono jacks
- S Video input - 4 pin DIN
- Headphone jack - stereo minijack

Sound output	14Wx2 (music power) 7Wx2 (RMS)
Dimensions	652x433x488 mm approx.
Weight	Approx. 26.5 kg
Supplied accessories	RM-836 Remote Commander (1) IEC designated batteries (2)
Other features	TELETEXT , Fasttext TOP text, NICAM

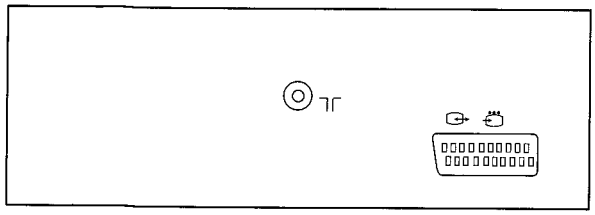
[RM-836]

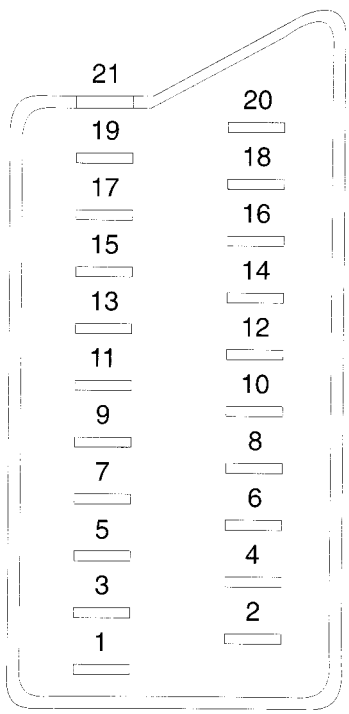
Remote control system	Infrared control
Power requirements	3V dc (2 batteries) R6 (size AA)
Dimensions	Approx. 210x45x24 mm (w/h/d)
Weight	Approx. 90g (Not including battery)

Design and specifications are subject to change without notice.

Item \ Model name	KV-21C1B	KV-21C1D	KV-21C1E	KV-21C1K	KV-21C1R
PIP	OFF	OFF	OFF	OFF	OFF
MPIP	OFF	OFF	OFF	OFF	OFF
Rotation Coil	OFF	OFF	OFF	OFF	OFF
VM Set (Velocity Modulation)	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON
Scart 2	OFF	OFF	OFF	OFF	OFF
Front in (3)	ON	ON	ON	ON	ON
AKB in 16:9 mode	ON	ON	ON	ON	ON
TXT	ON	ON	ON	ON	ON
FLOF	ON	ON	ON	ON	ON
TOP	ON	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON	ON
Norm I	ON	OFF	OFF	OFF	OFF
Norm D/K	OFF	ON	OFF	ON	ON
Norm L	ON	OFF	OFF	OFF	OFF
Language Preset	French	German	Spanish	OIRT	OIRT

21 pin connector (1)

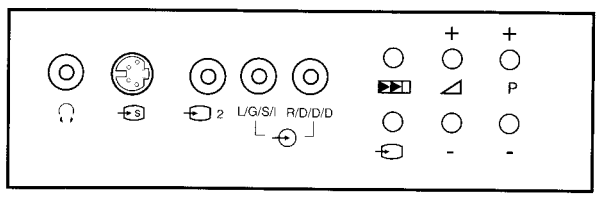


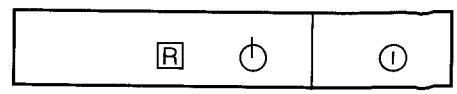


Pin No.	1	2	4	Signal	Signal Level
1	○	○	○	Audio output B (Right)	Standard level : 0.5V rms Output impedance : Less than 1k ohms*
2	○	○	○	Audio input B (Right)	Standard level : 0.5V rms Output impedance : More than 10k ohms*
3	○	○	○	Audio output A (Left)	Standard level : 0.5V rms Output impedance : Less than 1k ohm*
4	○	○	○	Ground (Audio)	
5	○	○	○	Ground (Blue)	
6	○	○	○	Audio input A (Left)	Standard level : 0.5V rms Output impedance : Less than 10k ohm*
7	○	●	●	Blue input	0.7 ± 3dB, 75 ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More10k ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (Green)	
10	○	○	○	Open	
11	○	●	●	Green	
12	○	○	○	Open	
13	○	○	○	Ground (Red)	
14	○	○	○	Ground (Blanking)	
15	○	—	—	Red input	0.7 ± 3dB, 75 ohms, positive
	—	○	○	(S signal) croma input	0.7 ± 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 - 3V) Low state (O - 0.4V) Input impedance : 75 ohms
17	○	○	○	Ground (Video output)	
18	○	○	○	Ground (Video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
20	○	—	—	Video input	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
	—	○	○	Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
21	○	○	○	Common ground (plug, sheild)	

○ Connected ● Not Connected (Open) * at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive Sync.





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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

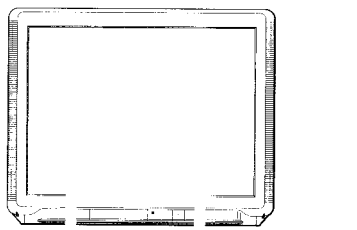
AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

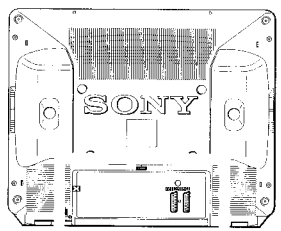
ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

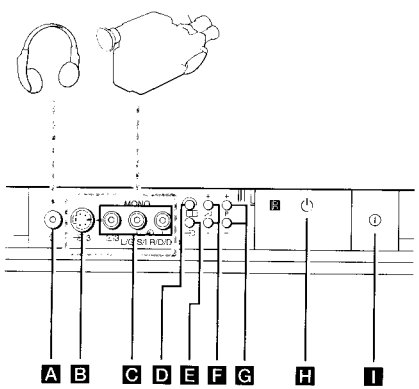
LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

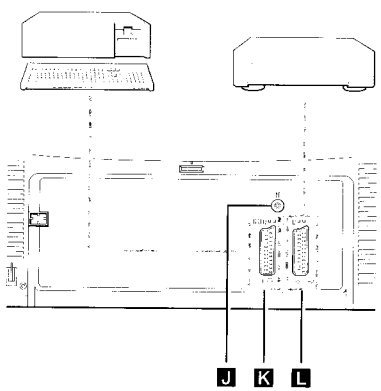
SECTION 1 GENERAL

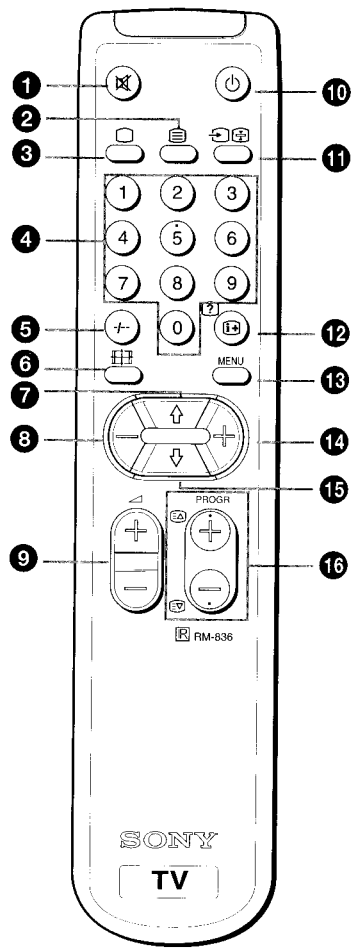
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in the manual.









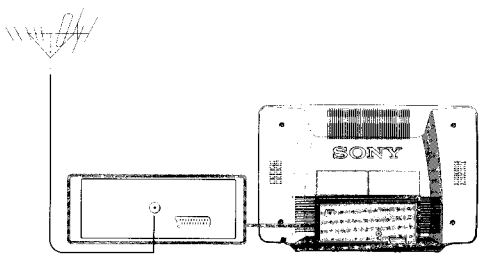


Please open the flaps at the front and at the back of the Instruction Manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander.

Step 1

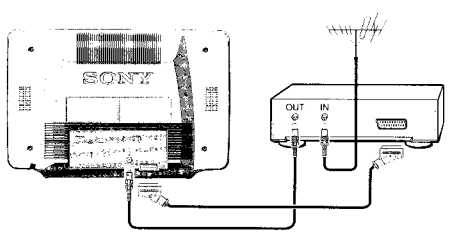
Connecting the Aerial

(If you connect a VCR, skip to step 2).
Connect an external aerial to the socket ⊤ K.



Step 2

Connecting a VCR



We recommend that you tune in the VCR signal to programme number "0".
For details see "Presetting Channels Manually" on page 33.

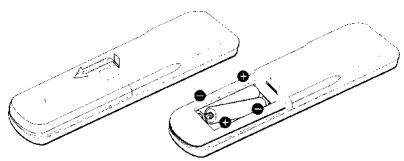
Step 3

Connecting the Mains Plug

Connect the mains plug of the TV set to the electrical outlet (220-240 V AC, 50 Hz).

Step 4

Inserting the Batteries into the Remote Commander



Always remember to dispose of used batteries in an environmental friendly way.

Step 5

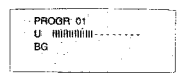
Remote Commander Overview

Refer to Symbol	Effect	Refer to Page
❶	Sound on/off button	30
❷	Teletext on button	37
❸	TV button / TV power on Teletext off button	30 37
❹ 1... 9, 0	Number buttons	30
❺ -/- -	Double digit entering button	30
❻	Screen Format	30
❼, ❽, ❿, ⓯	MENU: Cursor buttons to operate Menu functions TELETEXT: Fastext / TOP Text buttons	31 37
❾ +/-	Volume control	30
❿	Standby button	30
⓫	Input mode button Teletext: Freezing the subpage	38 37
⓬	On screen display button Teletext: reveal button	30 37
⓭ MENU	Menu on/off button	31
⓰ PROGR +/-	Programme buttons Teletext: Page up/down buttons	30 37

Step 6

Presetting Channels Automatically

TV searches for all available channels.
If manual tuning is preferred see Menu option - Presetting Channels Manually.



1 Depress power switch ⏻ **A** on TV set.

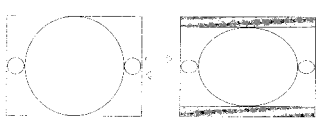
2 Press and hold ⏭ **E** on TV set for 2 seconds.
Auto tuning starts and screen shows.

- When Auto tuning stops, the programme position 1 is displayed.
- Programme names are automatically taken from Teletext if available. With that function, you can easily identify which channel you are watching.

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the Remote Commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes).

To	Press
Switch on	• ⏻ A on TV
Switch off temporarily	• ⏻ ⑩ *TV is now in standby mode, ⏻ indicator B on TV lights.*
Switch on again	• ▭ ③, PROGR +/- ⑯ C or any number button ④
Switch off completely	• ⏻ A on TV *To save energy we recommend switching off completely when TV is not in use.*
Select programmes	• PROGR +/- ⑯ C or number buttons ④ *For double digit numbers press -/-- ⑤ then the number e.g. For 23, press -/-- ⑤ then 2 and 3.*
Display the programme number	• ⓘ ⑫ *Press again to make programme number disappear.*
Adjust the volume	• +/- ⑨ D
Mute the sound	• 🔇 ① *Press again to restore sound.*
View video input	• ⏎ ⑪ F *Press again to return to TV programme.*
View programmes in 16:9 mode	• ⑥ *Press again to return to 4:3 mode.*



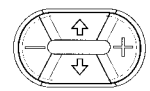
Use the following buttons on Remote Commander to control Menu screen.

1 Press MENU ⑬ to switch the Menu Screen on/off.

2 Use the coloured buttons as follows:

Green ⑦
Scroll up

Red – ⑧
decrease/select



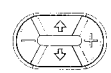
Yellow + ⑭
increase/confirm(OK)

Blue ⑮
Scroll down

Adjusting the Picture and Sound

1 Press MENU ⑬.

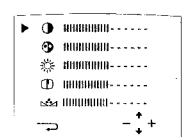
2 Press green ⑦ or blue ⑮ to select ■ (Picture) or ♪ (Sound) and press yellow ⑭ (OK) to confirm.



3 Press green ⑦ or blue ⑮ to select the item you wish to change.

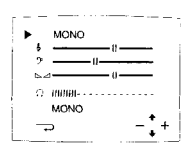
PICTURE CONTROL

Symbol	Item	-	Effect	+
◑	• Picture	Less		More
◕	• Colour	Less		More
☼	• Brightness	Darker		Brighter
◫	• Sharpness	Softer		Sharper
	• Hue control (only for NTSC video signals)	Reddish		Greenish



SOUND CONTROL

Symbol	Item	-	Effect	+
	• MONO/STEREO	A: channel 1 Stereo/Mono		B: channel 2
𝄞	• Treble	Less		More
𝄢	• Bass	Less		More
	• Balance	More left		More Right
	• Headphones: Volume	Less		More
	MONO/STEREO	A: channel 1 Stereo/Mono		B: channel 2



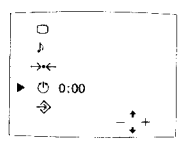
4 Press red ❽ or yellow ⓮ to change levels.

5 Press MENU ⓭ to return to normal TV screen.

- To reset to factory preset picture levels, press green ❼ or blue ⓯ to select →•← and press yellow (OK) ⓮.
- To return to the Main menu, select ⮌ and press yellow.
- **When receiving a STEREO or Bilingual programme:**
  1. Stereo/Monoaural: on the screen appears ▷▫◁ or ▷▫◁.
  2. Bilingual: on the screen appears ▷A◁ or ▷B◁.

Using the Sleep Timer

The TV may be set to switch to the standby mode automatically after a length of time chosen by you. You may set the time in 30 minutes steps up to 4 hours.



1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ to select ⏻

3 Press red ❽ or yellow ⓮ to set time delay.
0.00 (OFF) 0.30 1.00 1.30 .... 4.00

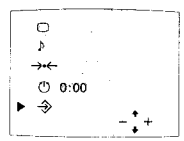
4 Press MENU ⓭ to return to normal TV screen.
When watching TV, press ⊡ ⓬ to display time remaining.

Presetting Channels Manually

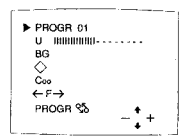
Up to 100 programme positions are available for presetting channels.

1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ to select ◇ and press yellow (OK) ⓮.



3 Select programme number using PROGR +/- ⓰ C or the number buttons ❹.



4 Press green ❼ or blue ⓯ to select tuning bar (IIIII...) and press red ❽ or yellow ⓮ to start channel search. When a channel is found the tuning bar stops moving and you see the picture.

5 If you want to store, press green ❼ or blue ⓯ to select ◇ and press yellow (OK) ⓮. If you don't want to store, press red ❽ or yellow ⓮ to continue search.

6 Repeat steps 3 to 5 for all other channels.

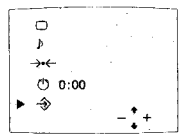
7 Press MENU ⓭ to return to normal TV screen.

Skipping
Programme Positions

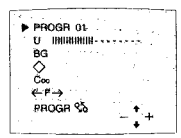
You can skip unused programme positions when selecting channels with the PROGR +/- ⑯ C buttons. You can still select them, however, using the number buttons ❹.

1 Press MENU ⑬.

2 Press green ❼ or blue ⑮ to select ⇨ and press yellow ⑭.



3 Select programme number you want to skip using PROGR +/- ⑯ C or number buttons ❹.



4 Press green ❼ or blue ⑮ to select Coo and press yellow (OK) ⑭.

5 Press green ❼ or blue ⑮ to select ◇ and press yellow (OK) ⑭ to store.

6 Repeat steps 3 to 5 for other unused programme positions.

7 Press MENU ⑬ to return to normal TV screen.

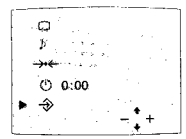
Fine-Tuning Channels

You can fine tune a stored channel.

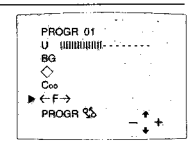
1 Select the channel you wish to fine tune.

2 Press MENU ⑬.

3 Press green ❼ or blue ⑮ button to select ⇨ and press yellow (OK) ⑭.



4 Press green ❼ or blue ⑮ to select ←F→ and use red ❽ or yellow ⑭ to adjust tuning.



5 Press green ❼ or blue ⑮ to select ◇ and press yellow (OK) ⑭ to store.

6 Press MENU ⑬ to return to normal TV screen.

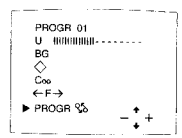
Exchanging Programme Positions

After tuning you may wish to rearrange the programme positions.

1 Press MENU ⓭.

2 Press green ❼ or blue ⓯ button to select ⇨ and press yellow (OK) ⓮.

3 Press green ❼ or blue ⓯ to select PROGR and press yellow (OK) ⓮.



4 Press red ❽ or yellow ⓮ to select the first programme position.

5 Press the blue ⓯ button.

6 Press red ❽ or yellow ⓮ to select the second programme position.

7 Press blue ⓯ to select and press yellow (OK) ⓮ to exchange.

8 Repeat steps 4 to 7 for other programme positions.

9 Press MENU ⓭ to return to normal TV screen.

Viewing Teletext

Teletext is an information service broadcast by TV stations.

1 Select the channel which carries the teletext service you wish to receive.

2 Press ❷ to switch on teletext.

3 Input three digits for the page number using the programme number buttons ❹ or / ⓰ (next or previous page).

4 Press ❸ to switch off teletext.

Teletext errors may occur if the broadcasting signals are weak.

Using Other Teletext Functions

Superimposing teletext on the TV

Press ❷ once in teletext mode or twice in TV mode to superimpose teletext on the TV screen.
Press ❷ again to cancel superimposing.

Freezing a teletext subpage

Press ⓫ (HOLD) to freeze the subpage. Freezing the page prevents the information that is displayed from being updated.
Press ⓫ to cancel HOLD and allow update to continue.

Revealing concealed information (eg: answers to a quiz).

Press ⓬ to reveal information.
Press again to conceal the information.

Using colour buttons to access pages (Fastext)

When the colour coded menu appears at the bottom of a page, press the colour button (green, red, yellow or blue) ❼❽⓮⓯ to access the corresponding page.

Connecting Optional Equipment

There is a wide range of optional equipment you can connect to your TV. Refer to the illustrations on the back flap page of this manual.

Symbol	Acceptable input signals
⇥/⇥2 G H ⇥S I	• Normal audio/video and S video through the phono jacks.
⇥/⇥ L	• Normal audio/video and RGB through Euro AV connector.

Note: Make sure not to switch on the equipments connected to the front connectors ⇥2 H and ⇥S I at the same time.

Selecting the Input

Press ⇥ 11 F repeatedly to select the desired video source.
Press ▢ 3 to return to normal TV operation.

Connecting Headphones

Plug in the headphones to the ∩ J socket on the front of the TV set.

Troubleshooting

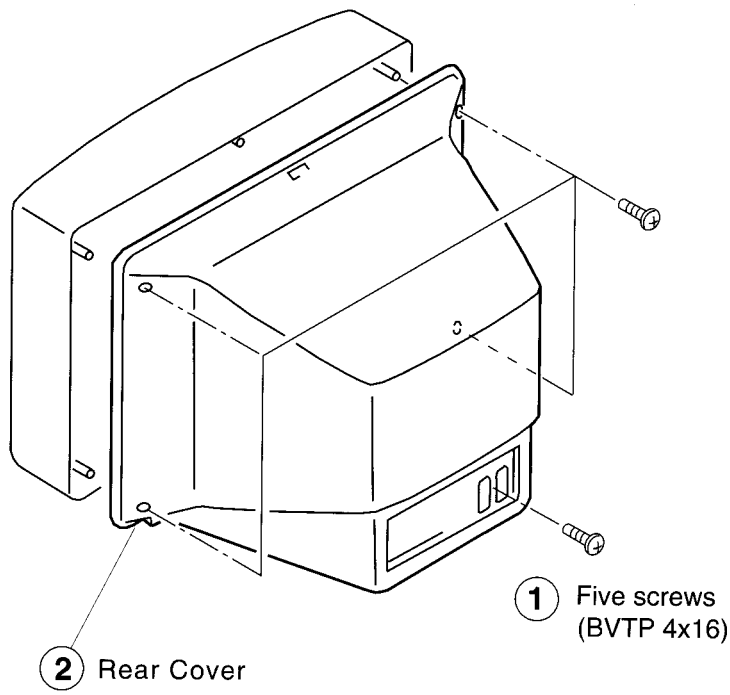
Here are some simple solutions to the problems which affect the picture and sound.

Problem	Solution
No picture, screen is dark, no sound	• Plug the TV in. • Press ⏻ A on the TV. • If ⏻ indicator B is on press ▢ 3 or the programme number 4 on the remote commander. • Check the aerial connection. • Check that the video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using ⏻ A.
Poor or no picture (screen is dark, sound is good)	• Press MENU 13 and adjust brightness picture and colour balance level.
Picture moved to the left when watching a RGB video source.	• Press ⇥ 11 repeatedly to select ⇥.
Good picture, no sound	• Adjust the volume +/– 9 D. • Disconnect any headphones. • If 🔇 is displayed on the screen, press 🔇 1.
No colour on colour programmes	• Press MENU 13 and adjust colour balance. • Press MENU 13 and reset to factory settings.
Distorted picture when changing programmes or selecting teletext	• Turn off the equipment connected to the 21-pin connector L.
Remote commander does not function	• Replace the batteries.

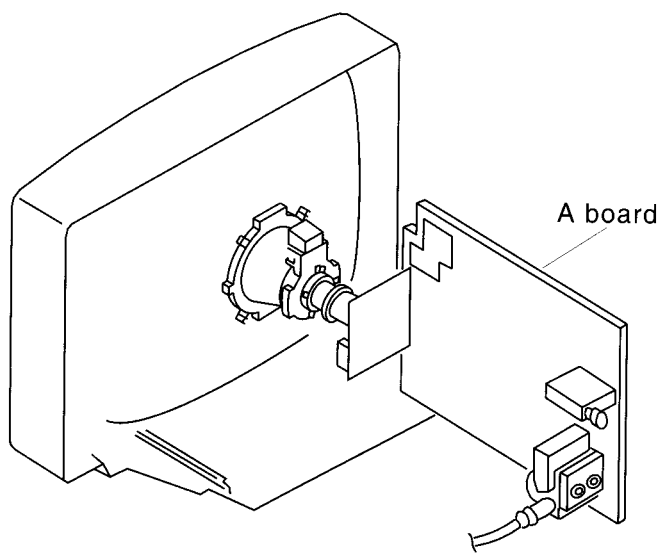
- **If you continue to have these problems, have your TV serviced by qualified personnel.**
- **NEVER open the casing yourself.**

SECTION 2
DISASSEMBLY

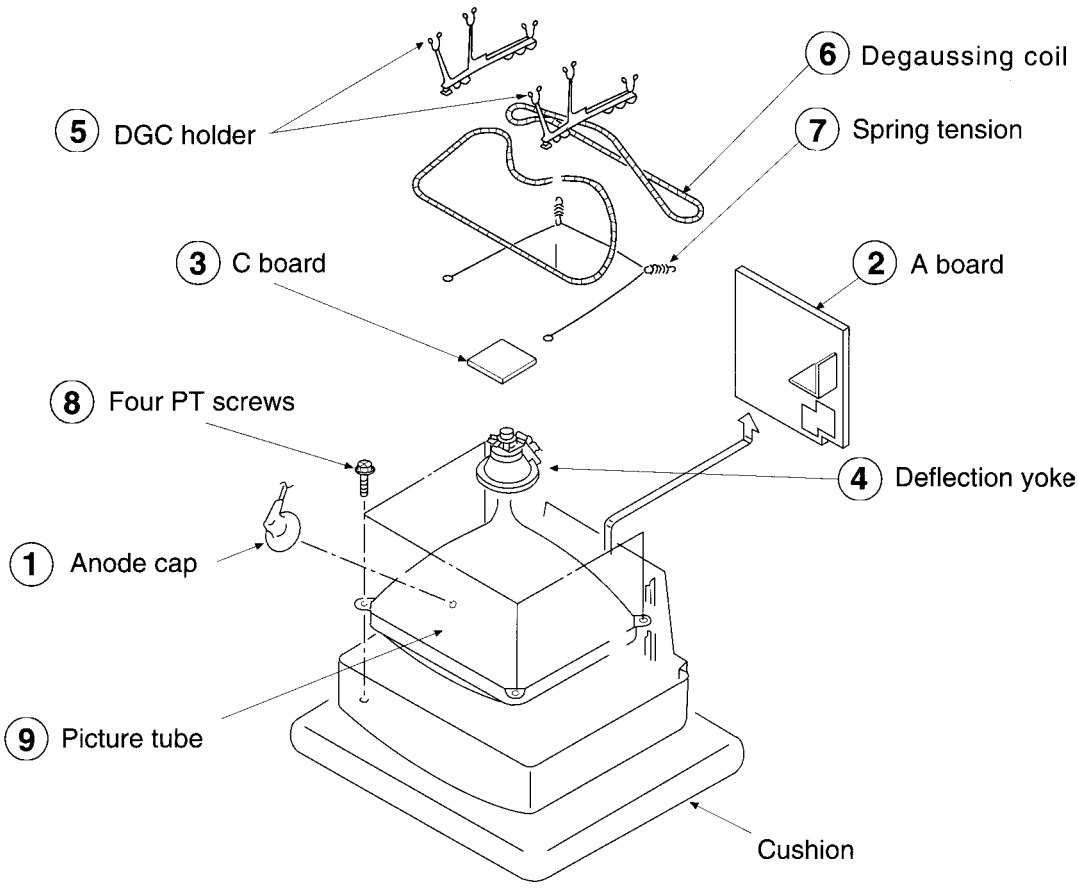
2-1. REAR COVER REMOVAL



2-2. SERVICE POSITION



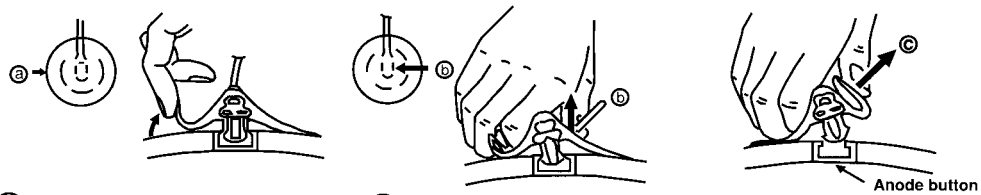
2-3. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* **REMOVING PROCEDURES.**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ

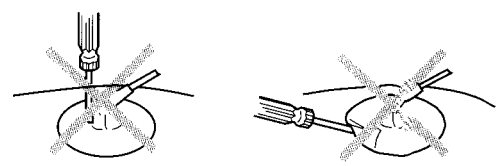
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

• HOW TO HANDLE AN ANODE-CAP

① Don't damage the surface of anode-cap with sharp shaped material !

② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called a shatter-hook terminal is built into the rubber.

③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with the rated power supply voltage, unless otherwise noted.

The Contrast and Brightness controls should be set as follows unless otherwise noted:

CONTRAST control 80%
(or Normal by commander)
BRIGHTNESS control 50%

Perform the adjustments in the following order:
1. Beam Landing
2. Convergence
3. Screen (G2), Drive, White Balance, Sub Colour and Sub Brightness.
4. Focus

Note: Test Equipment Required.
1. Colour bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

Preparation:
- In order to reduce the influence of external magnetic forces on the picture tube, face the TV set in an easterly or westerly direction.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

Demagnetize with a degausser.
1. Input an all white raster signal from the pattern generator.
   CONTRAST } normal
   BRIGHTNESS }
2. Switch the raster signal of the pattern generator to Red.
3. Move the deflection yoke backward, and adjust with the purity control so that Red is at the centre and the Blue and Green are evenly spaced at the sides. see (Fig. 3-1 - 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes Red. (Fig. 3-1)
5. Switch the raster signal to Blue and then Green to confirm the condition.
6. When the position of the deflection yoke has been determined, tighten it with the deflection yoke mounting screw.
7. When the landing at the corners is not correct, adjust by using disk magnets. (Fig. 3-4)

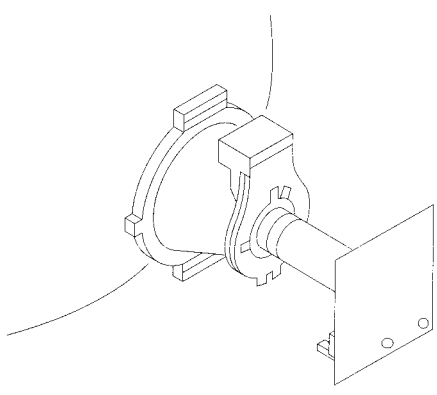


Fig. 3-1

Fig. 3-2

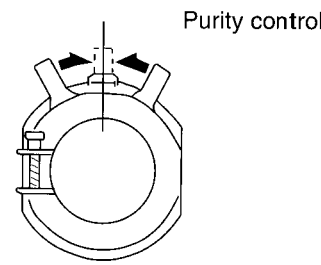


Fig. 3-3

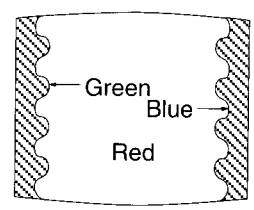
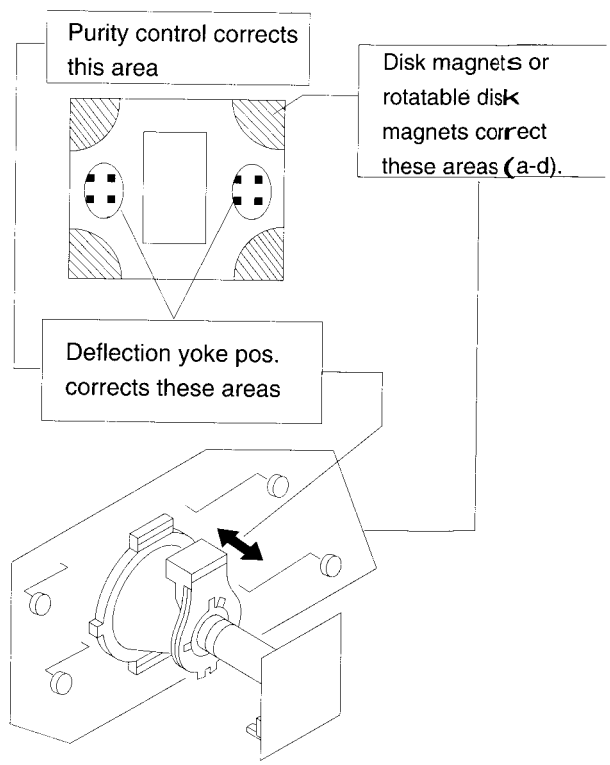


Fig. 3-4

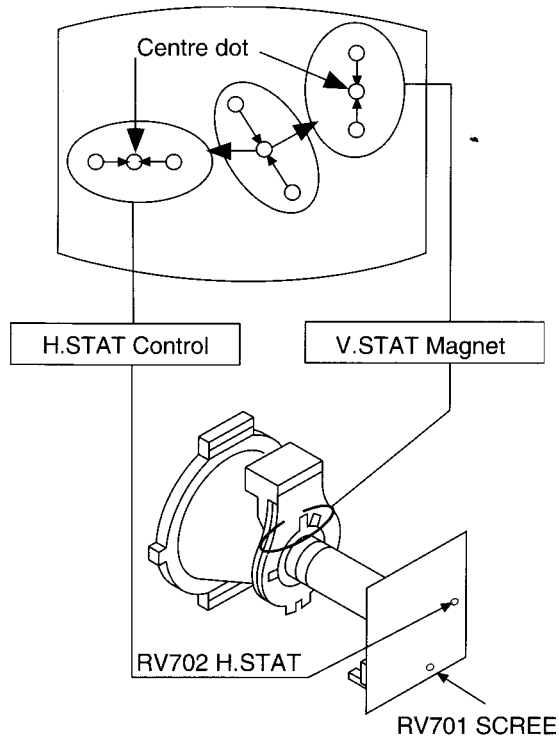

Purity control corrects this area
Disk magnets or rotatable disk magnets correct these areas (a-d).
Deflection yoke pos. corrects these areas

3-2. CONVERGENCE

Preparation:

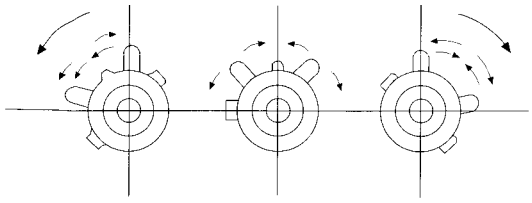
- Before starting, perform FOCUS, H.SIZE, and V.SIZE adjustments.
- Set the BRIGHTNESS control to minimum.
- Input a dot pattern from the pattern generator.

(1) Horizontal and Vertical Static Convergence

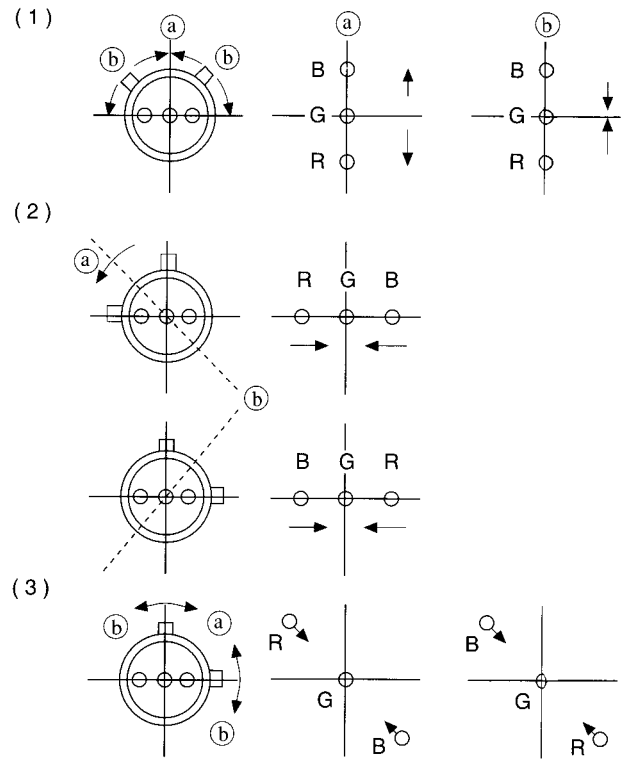


1. Adjust the H.STAT control to converge the Red, Green and Blue dots at the centre of the screen. (Horizontal movement)
2. Adjust the V.STAT magnet to converge the Red, Green and Blue dots at the centre of the screen. (Vertical movement)

- If the horizontal dots cannot coincide with variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking.
  (Adjust the convergence by tilting the V.STAT convergence or by opening or closing the V.STAT convergence.)



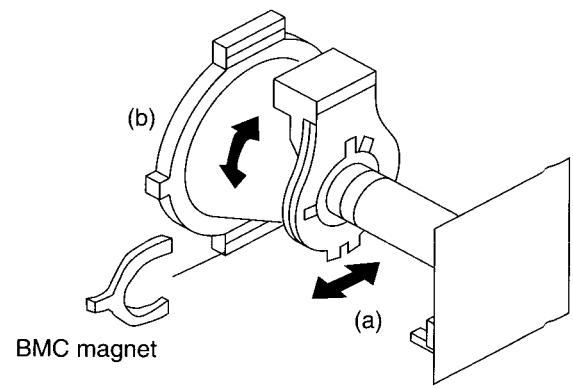
3. When the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the Red, Green and Blue dots move as shown below.



If the Red and Blue dots do not converge with the Green dots, perform the following steps.

1. Move the BMC magnet (a) to correct for insufficient H.static convergence.
2. Rotate the BMC magnet (b) to correct for insufficient V.static convergence.

In either case, repeat the Beam Landing Adjustment.

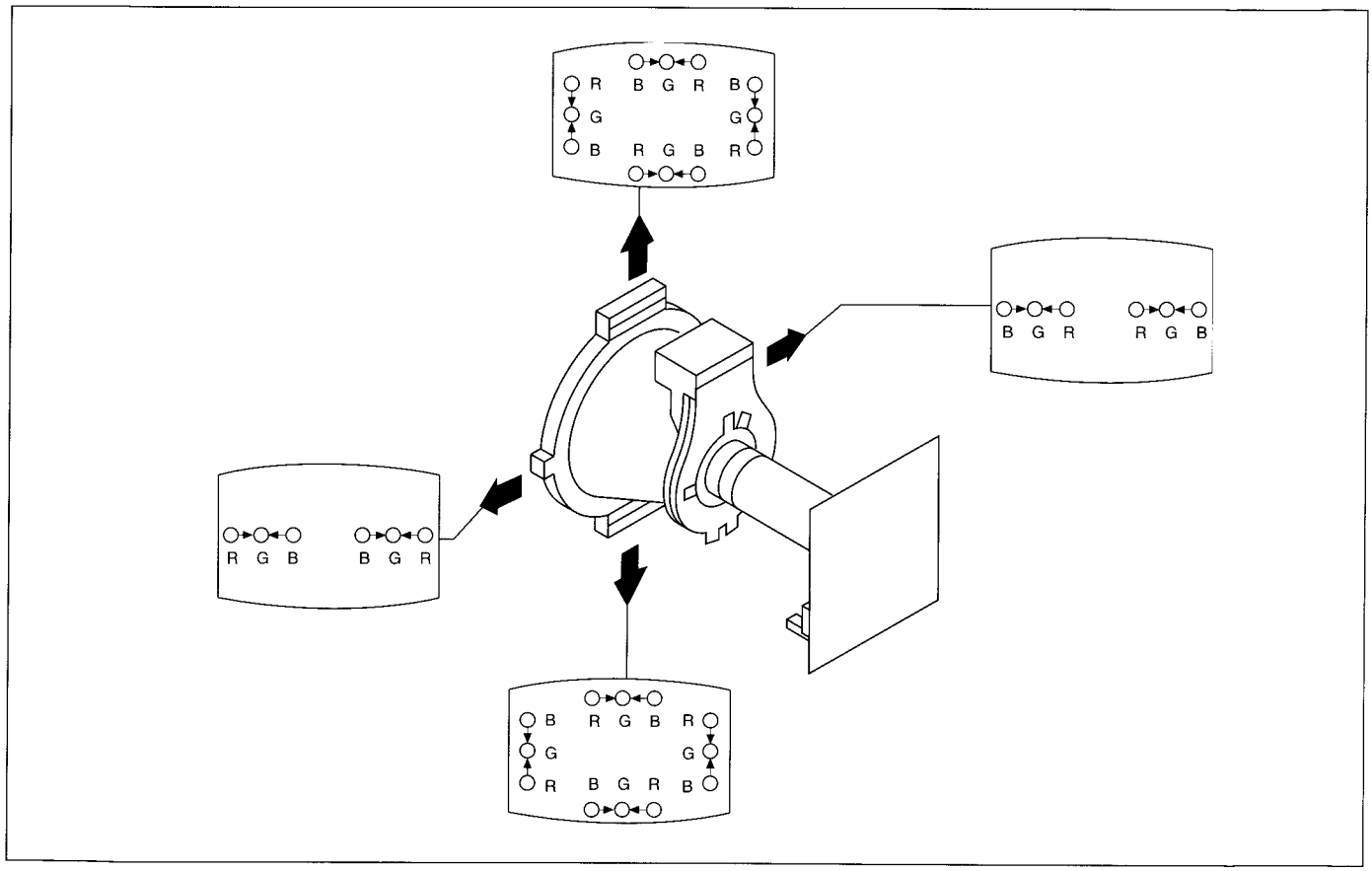


(2) Dynamic Convergence Adjustment

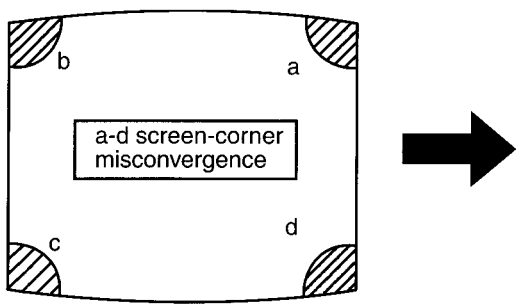
Preparation:

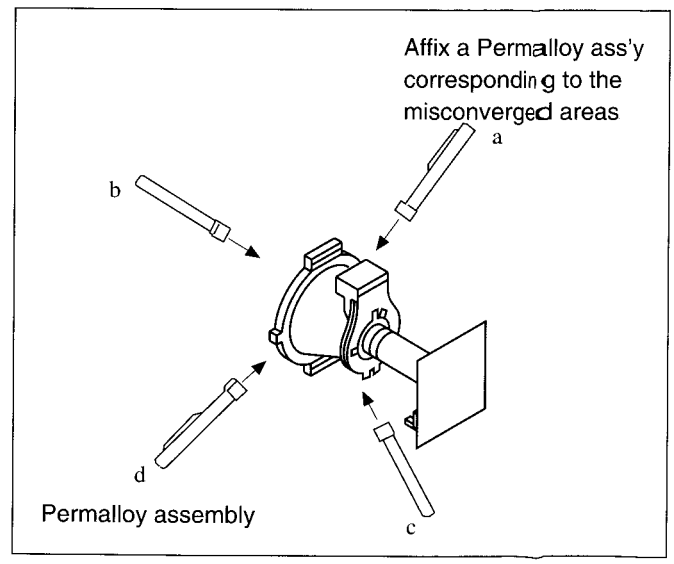
- Before starting, perform the Horizontal and Vertical static convergence adjustment.

1. Slightly loosen the deflection yoke screw.
2. Remove the deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

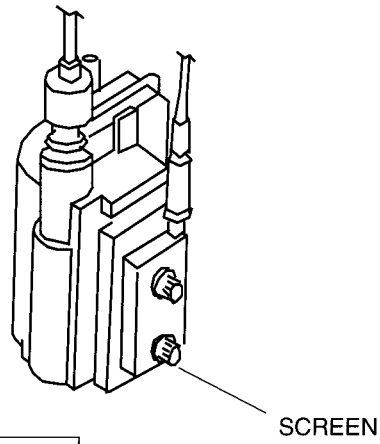


(3) Screen-corner Convergence.





3-3. SCREEN (G2), DRIVE, WHITE BALANCE, SUB COLOUR and SUB BRIGHTNESS.

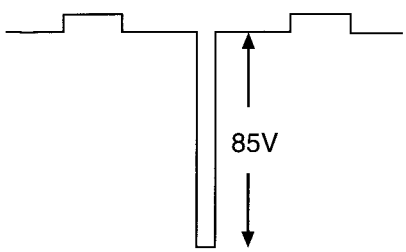


Screen (G2) setting

1. Input a 0 IRE (Black Level) signal from the pattern generator.
2. Enter into the Service Mode "Test""Test" and 38.
3. Adjust the SCREEN VR until the Down arrow is displayed.
4. Adjust the SCREEN VR until the Down arrow just disappears.
5. Press the TV Button on the Remote Commander to store the data.

Drive Level

1. Input a Video signal containing a small area of 100% white on a black background.
2. Connect an oscilloscope to Pin (10) of J701 (R OUT) on the C Board.
3. Set the Picture to maximum using "Test""Test" and 01.
4. Enter into the Service mode (Adjust Menu).
5. Using the Blue and Green buttons select "RED HWB".
6. Using the Red and Yellow buttons on the Remote Commander adjust until the oscilloscope waveform has an amplitude of 85V.

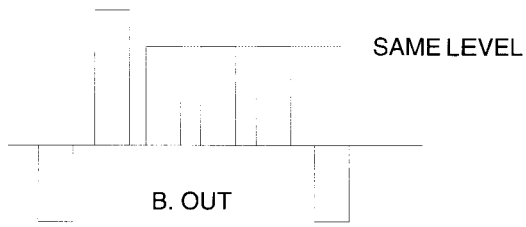


White Balance Adjustment

1. Input an all white pattern from the pattern generator.
2. Adjust the Colour and Brightness controls to the standard level.
3. Enter into the Service Mode.
4. Adjust the Green HWB and Blue HWB so that the White Balance becomes optimum.

Sub Colour Adjustment

1. Input a PAL colour bar pattern from the pattern generator.
2. Connect an oscilloscope to Pin (8) of J701 (B OUT) on the C Board.
3. Enter into the Service Mode "Test""Test" and 22.
4. Using the Red and Yellow buttons on the Remote Commander adjust until the oscilloscope waveform becomes as follows :



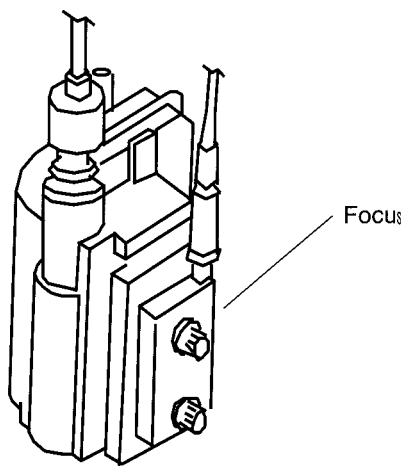
Note : If the TV is able to receive PAL and SECAM transmissions, repeat the above procedure using a Secam colour bar signal.

Sub Brightness Adjustment

1. Input a Philips pattern from the pattern generator.
2. Enter into the Service Mode "Test""Test" and 23.
3. Using the Red and Yellow buttons on the Remote Commander adjust until the 0 IRE of the grey scale and the cut off are only slightly visible on the screen.

3-4. FOCUS

1. Receive a television broadcast.
2. Normalize the picture setting.
3. Adjust the focus control on the flyback transformer to focus the screen centre area properly.
   Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



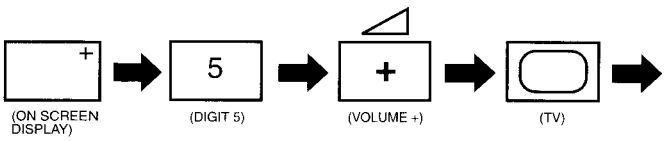
SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied Remote Control Commander RM-836.

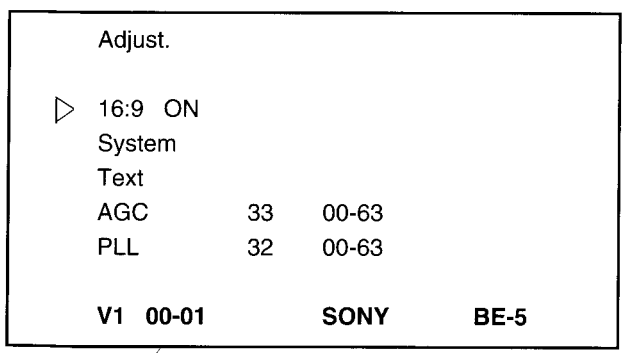
HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power of the set and enter into stand-by mode.
2. Press the following sequence of buttons on the Remote Control Commander.



"TT-- " will appear in the top right corner of the screen Other status information will also be displayed.

3. Press the MENU button on the Remote Commander to obtain the menu on the screen.



Software version

4. Press the Blue (Next) or Green (previous) buttons to select the adjustment item from the table.
5. Press the Yellow (+) or Red (-) buttons to change the data as required.
6. Turn off the power to quit the service mode when adjustments are completed.

Range of adjustments available from the on screen menu system.

Adjustment	Set	Range
V size	21	0 - 63
V breth	32	0 - 63
Pin amp	12	0 - 63
Para. tilt	43	0 - 63
V linear	42	0 - 63
Corner corr	05	0 - 63
H size	34	0 - 63
V pos	00	0 - 63
H phase	42	0 - 63
Blue	26	0 - 63
Green	32	0 - 63
Red	42	0 - 63
HV blk 1	00	0 - 63
HV blk 2	00	0 - 63
V cent	06	0 - 63
Zwei max	36	0 - 63
zwei min	18	0 - 63

4-2. TEST MODE 2:

TT -- Mode is available by pressing the Test button twice, O.S.D 'TT --' appears. The functions described below are available by pressing two digits. To release the 'TT --' mode, press 0 twice, press 'TEST' , press 'TV' or switch the TV into Stand-by mode.

00	Switch 'TT—' Mode off.
01	Set picture level to maximum.
02	Set picture level to minimum.
03	Set volume to 35%.
04	Set volume to 50%.
05	Set volume to 65%.
06	Set volume to 80%.
07	Ageing condition (picture max., brightness max.).
08	Shipping condition (Analog values are RESET to factory setting, Prog 1 is selected, TT—mode switched off, Vol = 35%).
09	Dummy.
10	No function.
11	Dummy
12	Dummy.
13	Dummy.
14	Dummy.
15	Read factory setting from ROM to NVM - Reads Volume, Brightness, Picture, Hue, Sharpness and Colour values from ROM to the actual used values (Last Power Memory).
16	Save actual used values as reset values.
17	Enable / Disable Sharpness Operation.
18	Dummy.
19	RGB priority.
20	No function.
21	No function.
22	Sub Colour (Pal / Secam Different Stores)
23	Sub Brightness.
24	RGB priority on.

25	Destination Systems DKE.
26	Destination Systems I/U.
27	Destination System I/I'.
28	Destination BG only.
29	Dummy.
30-31	No function.
32	Picture level to 50%
33-35	No function.
36	Audio mute ON.
37	OSD off.
38	Enter G2 adjustment mode.
39	Sub-brightness
40	No function.
41	Re-initialise NVM.
42	Dummy.
43	Re-initialise Geometry settings.
44-47	Dummy
48	Set NVM testbyte to 44h in NVM.
49	Erase NVM testbyte
50	No function.
51	Toggle 60/100 programs.

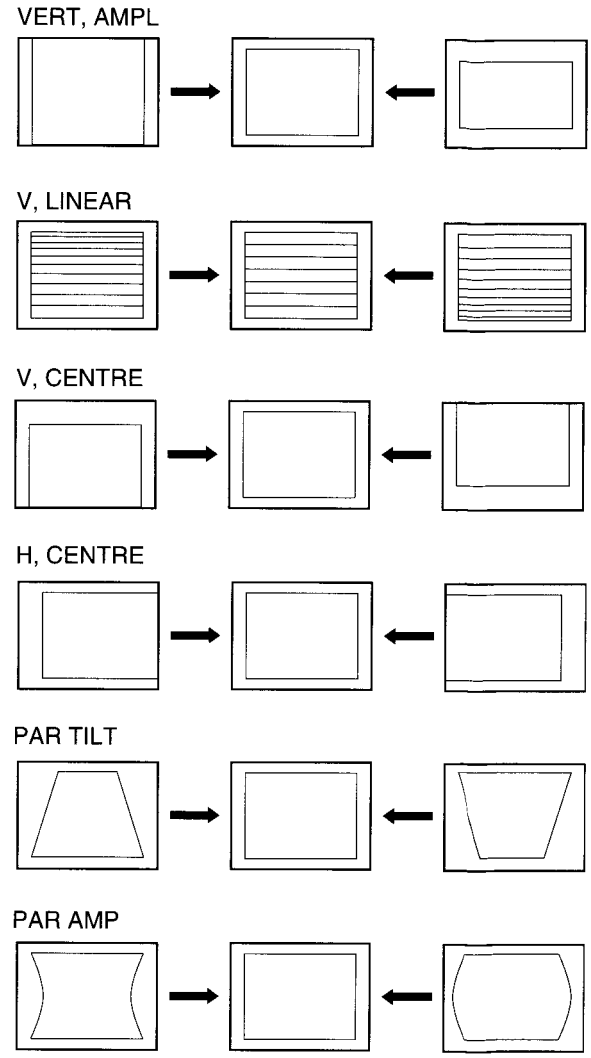
Note : For Test Modes 41 - 51, it is necessary to ensure that the TV is set to Prog 59.

DEFLECTION SYSTEM ADJUSTMENT

1. Enter into the service mode.
2. Using the Blue or Green buttons select the Adjust item.
3. Press the Yellow button to enter the adjustment submenu.
4. Select and adjust each item in order to obtain the optimum image.

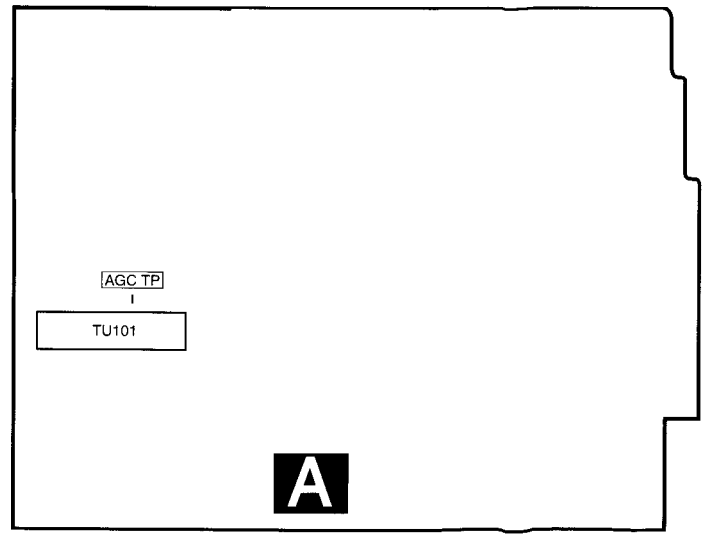
See Note on page 23

Adjustment	Set	Range
V size	21	0 - 63
V breth	32	0 - 63
Pin amp	12	0 - 63
Para. tilt	43	0 - 63
V linear	42	0 - 63
Corner corr	05	0 - 63
H size	34	0 - 63
V pos	00	0 - 63
H phase	42	0 - 63
Blue	26	0 - 63
Green	32	0 - 63
Red	42	0 - 63
HV blk 1	00	0 - 63
HV blk 2	00	0 - 63
V cent	06	0 - 63
Zwei max	36	0 - 63
zwei min	18	0 - 63



AGC ADJUSTMENT

1. Receive a signal of 63dBuV / 75 ohm terminated via the tuner socket.
2. Measure the voltage at AGC TP.
3. Adjust TU101 RV to obtain a voltage of 3.0 ± 0.3V.



- A Board Component Side -

4-3. BE-5 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-5 chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failure to respond to I^2C. In the event of one of these situations arising the software will first try to release the Bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each relevant device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED by a Series of flashes which must be counted (See Table 1), Non fatal errors are reported with this method.

If a fatal error is found, the set will simply stay in whichever state it was when the error occurred, but if a non fatal error occurs the set will try to continue to operate.
To check error code it is necessary to use TV error display part number S-188-900-10.

Table 1

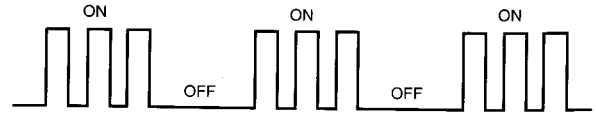
No. of Flashes	Notes	Error code	Description
-		00	No error.
2	(2)	30	Jungle nacks IIC bus1 transmisson.
3	(3)	31	Jungle FAULT (not OK) - flags.
4	(2)	32	Jungle - No H flyback.
-		33	Jungle - Stack overflow.
5	(4)	40	Sound Processor nacks IIC bus1 transmission.
6	(3)	90	Protection input: X-ray protection.
6	(3)	91	Protection error: No V synchro.
7	(1)	10	NVM nacks IIC bus0 transmission.
8	(3)	20	Tuner nacks IIC bus1 transmission.
9	(1)	01	General IIC bus1 error (SDA1 or SCL1 are being held low.)

(1) Only reported on mains power up.
(2) Reported on mains power up or exiting standby.
(3) Reported at any time and result in the set reverting to standby mode.
(4) Reported at any time and result in the set reverting to audio mute mode.

Note : Deflection System Adjustments should not be carried out whilst using an NTSC (60Hz) signal, or if the signal is unlocked.

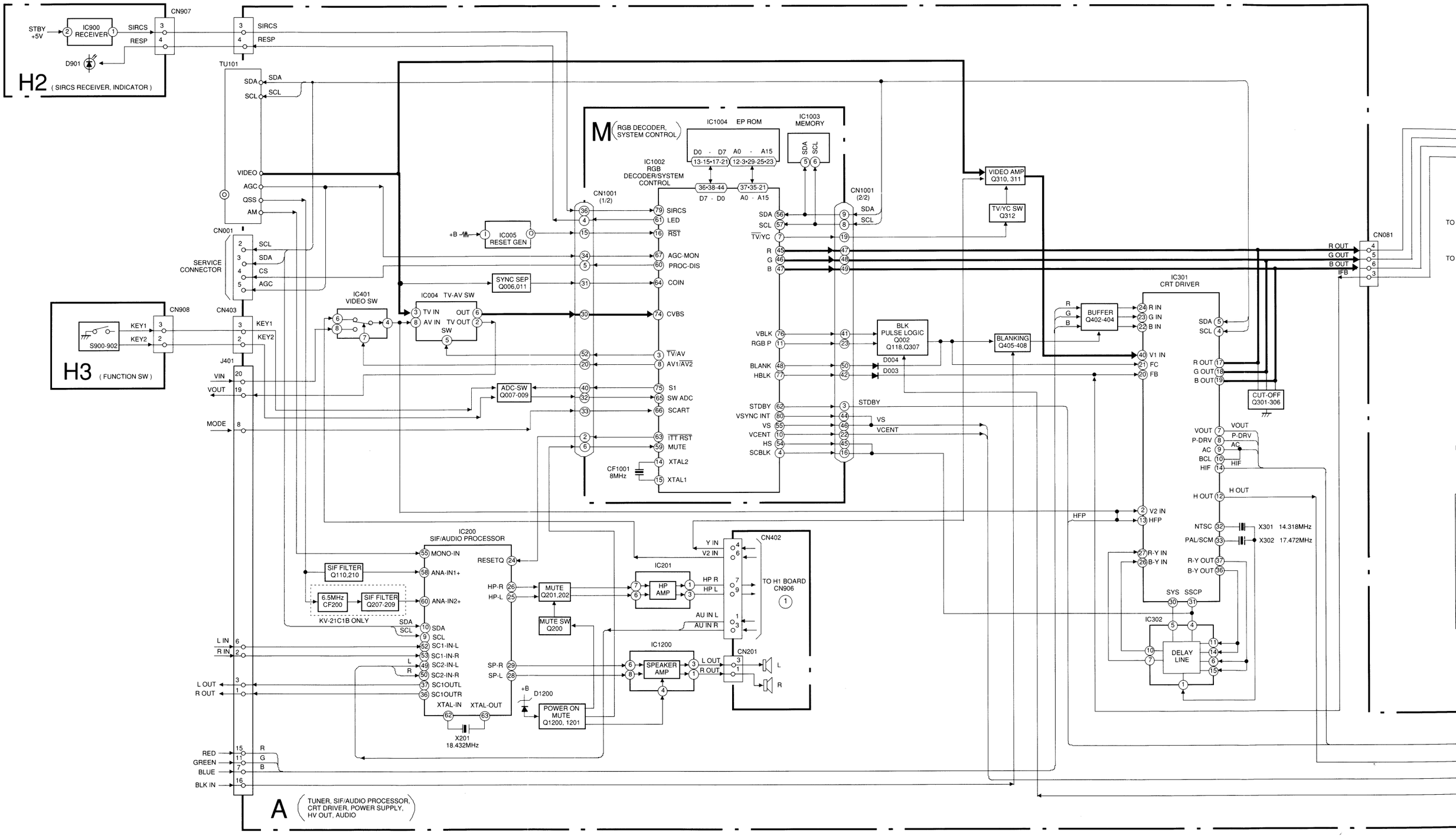
Flash Timing Example : e.g. error number 3

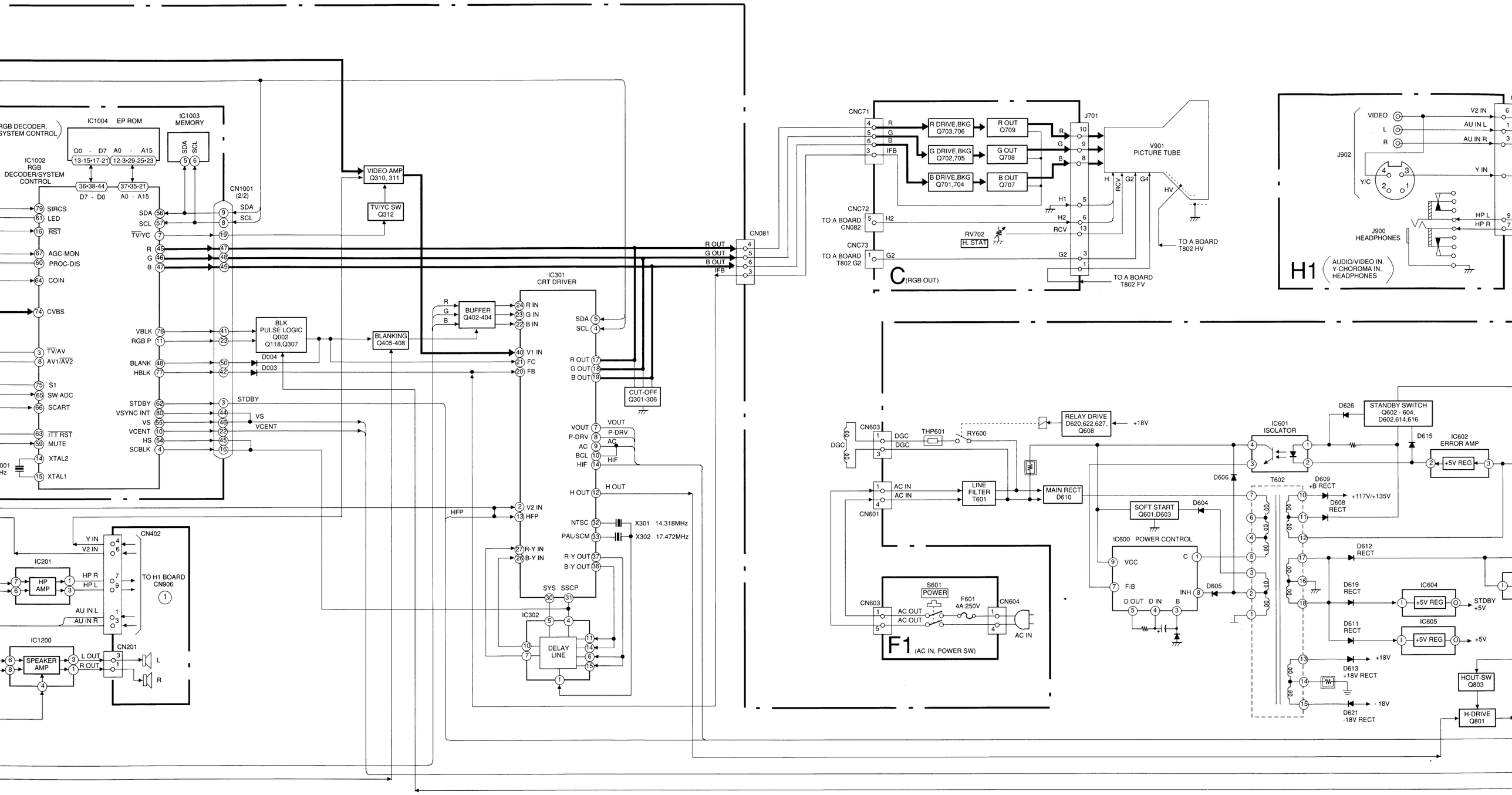
Stby LED



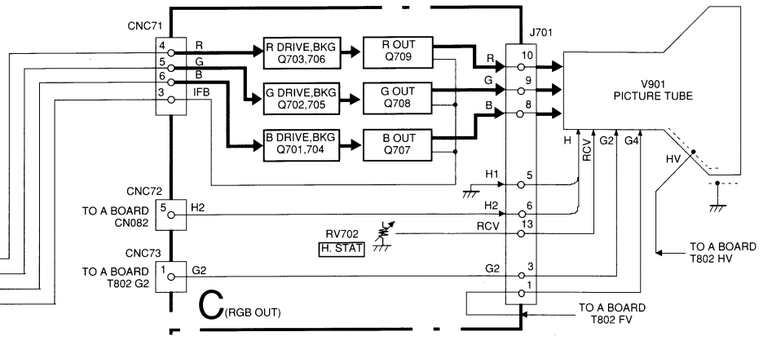
SECTION 5
DIAGRAMS

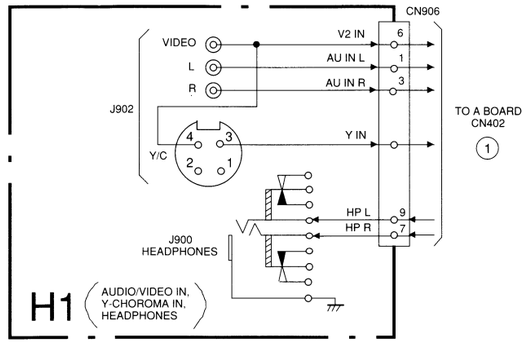
5-1. BLOCK DIAGRAM

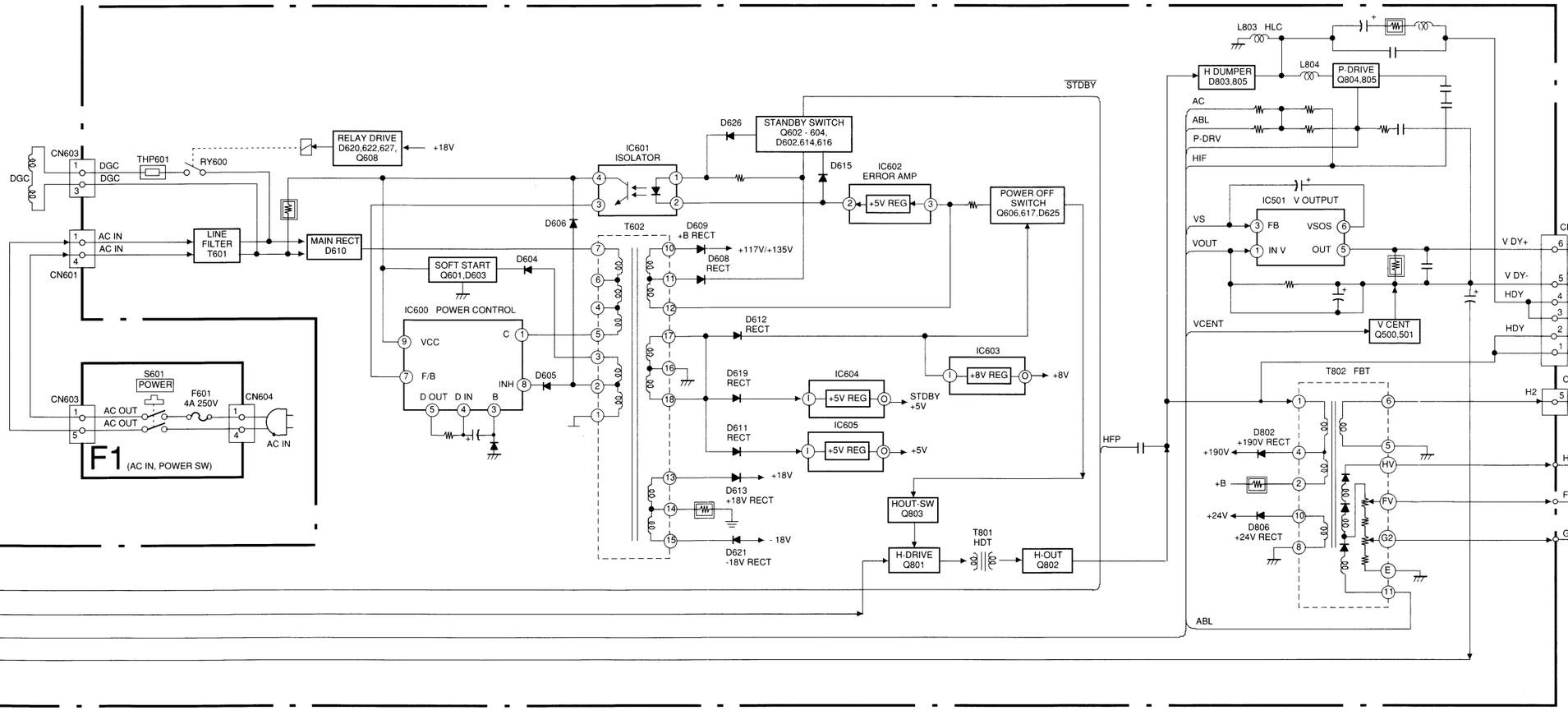



RGB DECODER, SYSTEM CONTROL
IC1004 EP ROM
IC1003 MEMORY
D0 - D7 A0 - A15
SDA SCL
IC1002 RGB DECODER/SYSTEM CONTROL
D7 - D0 A0 - A15
CN1001 (2/2)
SIRCS
LED
RST
AGC-MON
PROC-DIS
COIN
CVBS
TV/AV
AV1/AV2
S1
SW ADC
SCART
ITT RST
MUTE
XTAL2
XTAL1
VIDEO AMP Q310, 311
TV/YC SW Q312
VBLK
RGB P
BLK PULSE LOGIC Q002 Q118,Q307
BLANKING Q405-408
D004
D003
BLANK
HBLK
STDBY
VSYNC INT
VS
VCENT
HS
SCBLK
BUFFER Q402-404
IC301 CRT DRIVER
R IN
G IN
B IN
V1 IN
FC
FB
R OUT
G OUT
B OUT
CUT-OFF Q301-306
VOUT
P-DRV
AC
BCL
HIF
H OUT
V2 IN
HFP
NTSC
PAL/SCM
X301 14.318MHz
X302 17.472MHz
R-Y IN
B-Y IN
R-Y OUT
B-Y OUT
SYS SSCP
IC302
DELAY LINE
CN402
Y IN
V2 IN
IC201
HP AMP
HP R
HP L
AU IN L
AU IN R
TO H1 BOARD CN906
IC1200
SPEAKER AMP
L OUT
R OUT
CN201
L
R
CN081
CNC71
R DRIVE,BKG Q703,706
G DRIVE,BKG Q702,705
B DRIVE,BKG Q701,704
R OUT Q709
G OUT Q708
B OUT Q707
IFB
J701
V901 PICTURE TUBE
H
RCV
G2
G4
HV
CNC72
TO A BOARD CN082
H1
H2
RV702 H. STAT
CNC73
TO A BOARD T802 G2
TO A BOARD T802 HV
TO A BOARD T802 FV
C (RGB OUT)
J902
VIDEO
L
R
Y/C
V2 IN
AU IN L
AU IN R
Y IN
HP L
HP R
J900 HEADPHONES
H1 AUDIO/VIDEO IN, Y-CHOROMA IN, HEADPHONES

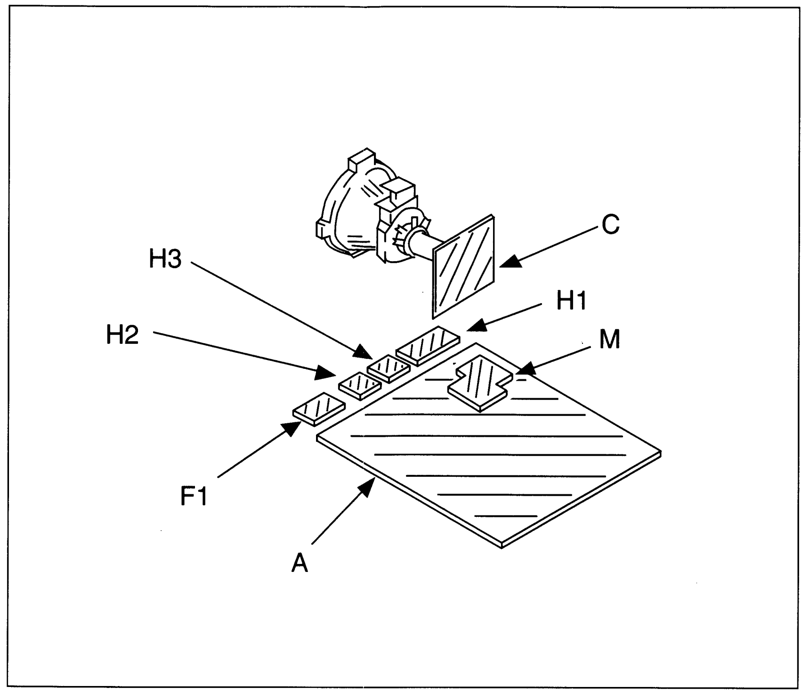
CN603
DGC
THP601
RY600
RELAY DRIVE D620,622,627, Q608
+18V
CN601
AC IN
LINE FILTER T601
MAIN RECT D610
S601 POWER
F601 4A 250V
CN604
F1 (AC IN, POWER SW)
IC601 ISOLATOR
D606
T602
SOFT START Q601,D603
D604
IC600 POWER CONTROL
VCC
F/B
D OUT
D IN
INH
D605
D626
STANDBY SWITCH Q602 - 604, D602,614,616
D615
IC602 ERROR AMP
+5V REG
D609 +B RECT
D608 RECT
+117V/+135V
D612 RECT
D619 RECT
IC604
STDBY +5V
D611 RECT
IC605
+5V
+18V
D613 +18V RECT
HOUT-SW Q803
H-DRIVE Q801
- 18V
D621 -18V RECT


CNC71
R DRIVE,BKG Q703,706
R OUT Q709
G DRIVE,BKG Q702,705
G OUT Q708
B DRIVE,BKG Q701,704
B OUT Q707
J701
V901 PICTURE TUBE
CNC72
TO A BOARD CN082
RV702 H. STAT
CNC73
TO A BOARD T802 G2
TO A BOARD T802 HV
TO A BOARD T802 FV
C (RGB OUT)


CN906
VIDEO
L
R
V2 IN
AU IN L
AU IN R
Y IN
J902
Y/C
HP L
HP R
J900 HEADPHONES
TO A BOARD CN402
H1 (AUDIO/VIDEO IN, Y-CHOROMA IN, HEADPHONES)


CN603
DGC
THP601
RY600
RELAY DRIVE D620,622,627, Q608
+18V
IC601 ISOLATOR
D626
STANDBY SWITCH Q602 - 604, D602,614,616
D615
IC602 ERROR AMP
+5V REG
POWER OFF SWITCH Q606,617,D625
AC IN
LINE FILTER T601
MAIN RECT D610
CN601
D606
T602
D609 +B RECT
+117V/+135V
D608 RECT
SOFT START Q601,D603
D604
IC600 POWER CONTROL
VCC
F/B
D OUT
D IN
INH
B
C
D605
D612 RECT
D619 RECT
IC604
+5V REG
STDBY +5V
IC603
+8V REG
+8V
D611 RECT
IC605
+5V REG
+5V
+18V
D613 +18V RECT
- 18V
D621 -18V RECT
S601 POWER
F601 4A 250V
CN604
AC OUT
AC OUT
AC IN
F1 (AC IN, POWER SW)
HOUT-SW Q803
H-DRIVE Q801
T801 HDT
H-OUT Q802
HFP
L803 HLC
L804
H DUMPER D803,805
P-DRIVE Q804,805
AC
ABL
P-DRV
HIF
IC501 V OUTPUT
FB
IN V
VSOS
OUT
VS
VOUT
VCENT
V CENT Q500,501
T802 FBT
D802 +190V RECT
+190V
+B
+24V
D806 +24V RECT
CN801
V DY+
V DY-
HDY
VDY
DY ASSY
CN082
H2
TO C BOARD CNC72
HV
TO PICTURE TUBE (HV)
FV
TO PICTURE TUBE (G4)
G2
TO C BOARD CNC73

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
  k = 1000 , M = 1000K
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power ¼ W

- : nonflammable resistor.
- : internal component.
- ▭ : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth - ground.
- ⫫ : earth - chassis.
- ⧺ : no mounted.

Note : The components identified by shading and marked ! are critical for safety. Replace only with the part number specified.

Note : Les composants identifies par une trame et une marque ! sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- ▬ : B+ bus.
- : signal path. (RF)

A BOARD

IC	
IC004	F-2
IC005	F-2
IC200	H-10
IC201	G-11
IC301	I-4
IC302	J-4
IC401	J-6
IC501	D-9
IC600	C-5
IC601	D-3
IC602	E-6
IC603	F-6
IC604	E-2
IC605	G-5
IC1200	G-7

TRANSISTOR	
Q002	F-3
Q006	F-10
Q007	F-1
Q008	F-1
Q009	F-1
Q011	G-9
Q107	G-10
Q110	F-11
Q118	G-12
Q200	H-7
Q201	G-10
Q202	G-10
Q204	H-11
Q205	G-11
Q207	J-9
Q208	J-9
Q209	J-10
Q210	J-9
Q300	H-4
Q301	I-5
Q302	I-5
Q303	I-5
Q304	I-5
Q305	H-5
Q306	H-5
Q307	F-8
Q310	I-2
Q311	I-2
Q312	H-3
Q402	G-13
Q403	H-12
Q404	H-12
Q405	G-12
Q406	G-12
Q407	H-12
Q408	G-12
Q500	E-12
Q501	E-12
Q601	C-4
Q602	F-3
Q603	E-2
Q604	E-2
Q606	F-6
Q608	A-6
Q617	E-7
Q801	C-7
Q802	C-9
Q803	F-8
Q804	B-7
Q805	B-8
Q1200	I-7
Q1201	H-7

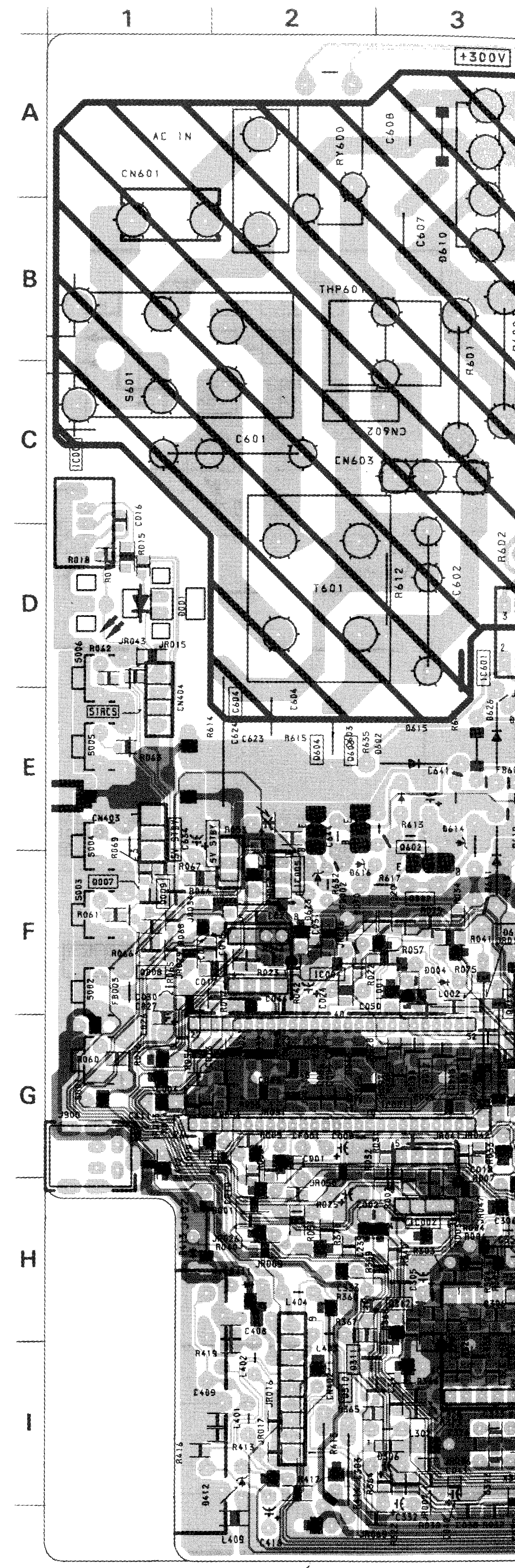
DIODE	
D002	F-11
D003	G-5
D004	F-3
D005	G-4
D006	G-4
D007	G-3
D009	I-7
D011	E-8
D201	H-11
D301	H-4
D302	H-5
D307	F-8
D308	F-9
D401	H-12
D402	H-12
D403	H-13
D404	H-12
D405	G-12
D406	G-3
D407	G-12
D408	I-12
D409	I-12
D410	I-12
D412	J-2
D415	H-12
D416	I-10
D417	I-10
D501	C-8
D602	E-3
D603	B-4
D604	C-4
D605	C-5
D606	C-4
D607	C-4
D608	E-5
D609	E-6
D610	A-3
D611	F-3
D612	F-4
D613	E-5
D614	F-3
D615	E-3
D616	F-2
D617	E-7
D619	F-3
D620	A-7
D621	E-4
D622	A-7
D625	F-7
D626	E-3
D627	A-6
D801	B-9
D802	A-10
D803	F-8
D805	D-10
D806	A-12
D807	C-7
D809	A-11
D1200	I-7

Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

A [TUNER, SIF/AUDIO PROCESSOR, CRT DRIVER, POWER SUPPLY, HV OUT, AUDIO]

A Board



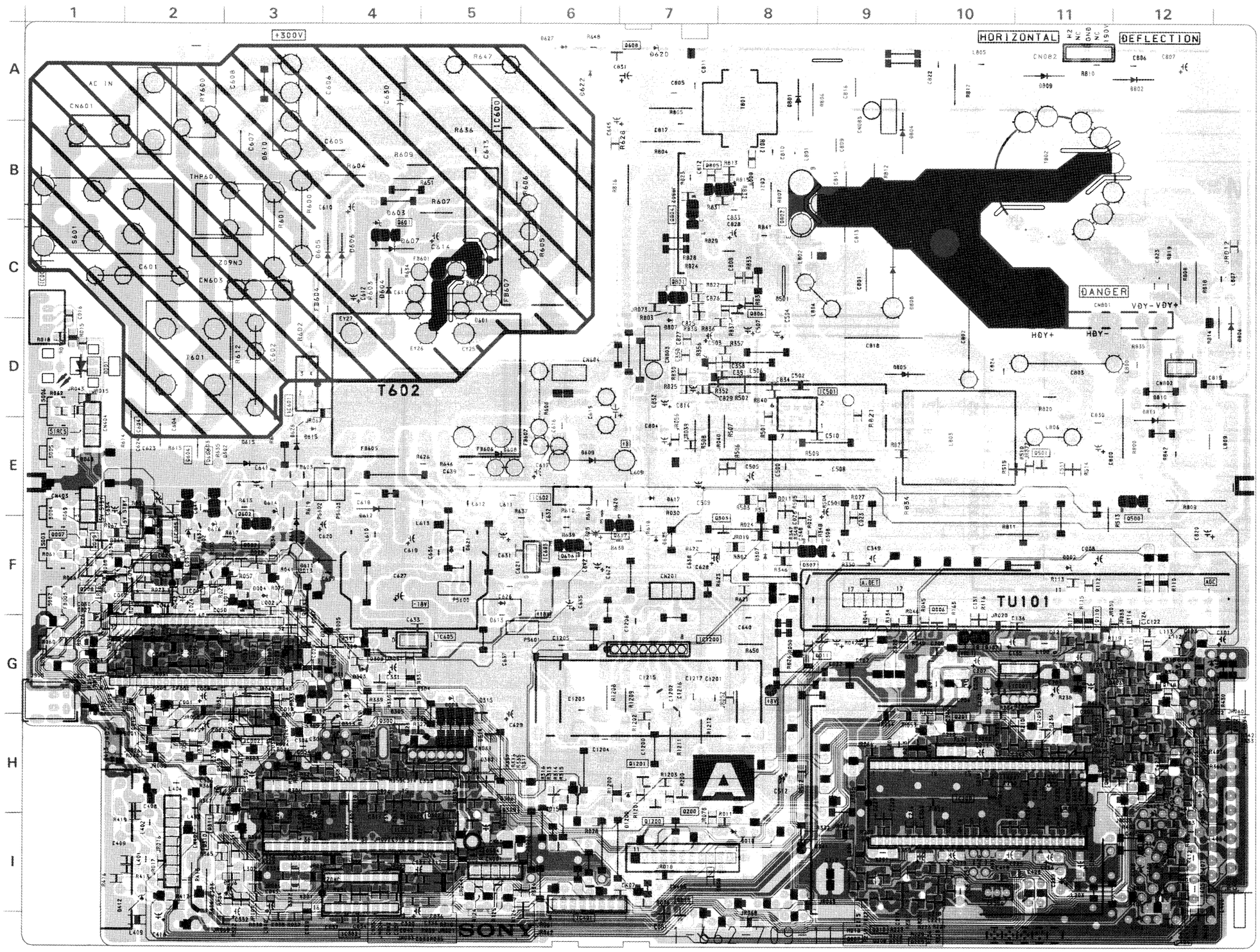
A TUNER, SIF/AUDIO PROCESSOR, CRT DRIVER, POWER SUPPLY, HV OUT, AUDIO

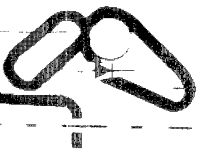
A Board

A BOARD

IC		DIODE	
IC004	F-2	D002	F-11
IC005	F-2	D003	G-5
IC200	H-10	D004	F-3
IC201	G-11	D005	G-4
IC301	I-4	D006	G-4
IC302	J-4	D007	G-3
IC401	J-6	D009	I-7
IC501	D-9	D011	E-8
IC600	C-5	D201	H-11
IC601	D-3	D301	H-4
IC602	E-6	D302	H-5
IC603	F-6	D307	F-8
IC604	E-2	D308	F-9
IC605	G-5	D401	H-12
IC1200	G-7	D402	H-12
		D403	H-13
		D404	H-12
TRANSISTOR		D405	G-12
		D406	G-3
		D407	G-12
Q002	F-3	D408	I-12
Q006	F-10	D409	I-12
Q007	F-1	D410	I-12
Q008	F-1	D412	J-2
Q009	F-1	D415	H-12
Q011	G-9	D416	I-10
Q107	G-10	D417	I-10
Q110	F-11	D501	C-8
Q118	G-12	D602	E-3
Q200	H-7	D603	B-4
Q201	G-10	D604	C-4
Q202	G-10	D605	C-5
Q204	H-11	D606	C-4
Q205	G-11	D607	C-4
Q207	J-9	D608	E-5
Q208	J-9	D609	E-6
Q209	J-10	D610	A-3
Q210	J-9	D611	F-3
Q300	H-4	D612	F-4
Q301	I-5	D613	E-5
Q302	I-5	D614	F-3
Q303	I-5	D615	E-3
Q304	I-5	D616	F-2
Q305	H-5	D617	E-7
Q306	H-5	D619	F-3
Q307	F-8	D620	A-7
Q310	I-2	D621	E-4
Q311	I-2	D622	A-7
Q312	H-3	D625	F-7
Q402	G-13	D626	E-3
Q403	H-12	D627	A-6
Q404	H-12	D801	B-9
Q405	G-12	D802	A-10
Q406	G-12	D803	F-8
Q407	H-12	D805	D-10
Q408	G-12	D806	A-12
Q500	E-12	D807	C-7
Q501	E-12	D809	A-11
Q601	C-4	D1200	I-7
Q602	F-3		
Q603	E-2		
Q604	E-2		
Q606	F-6		
Q608	A-6		
Q617	E-7		
Q801	C-7		
Q802	C-9		
Q803	F-8		
Q804	B-7		
Q805	B-8		
Q1200	I-7		
Q1201	H-7		

m the side which enables seeing.
the rear side.





NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

A BOARD TRANSISTOR TABLE

Transistor Voltage Table

Ref No	B Base	C Collector	E Emitter
Q002	-	5.0	-
Q006	4.6	0.7	4.8
Q007	-	5.0	0
Q008	5.0	5.0	4.5
Q009	0.1	5.0	4.5
Q011	0.6	5.0	0
Q012	-	5.0	-
Q013	-	5.0	-
Q014	-	5.0	-
Q110	4.6	8.0	4.0
Q118	-	-	0
Q201	-	-	0
Q202	-	-	0
Q204	4.7	8.0	4.0
Q205	4.6	8.0	4.0
Q210	3.5	8.0	2.9
Q300	0.3	0.6	0
Q301	0	2.0	0
Q302	0	2.1	0
Q303	0	2.2	0
Q304	0	2.0	0
Q305	0	2.1	0
Q306	0	2.2	0
Q310	1.7	5.0	3.0
Q311	3.6	5.0	3.0
Q312	-0.2	-	0
Q403	-	-	-
Q404	-	-	-
Q500	5.4	19.7	4.8
Q501	0.6	5.4	0
Q601	-0.3	-2.2	-2.6
Q602	68.0	8.0	68.4
Q603	0	67.7	0
Q604	0.6	0	0
Q608	-	15.8	0
Q801	0	120	0
Q802	-0.2	120	0
Q803	0.1	0.6	0
Q804	0.5	16.0	-
Q805	1.0	16.0	0.5
Q1201	3.5	7.0	2.8

A BOARD IC VOLTAGE TABLE

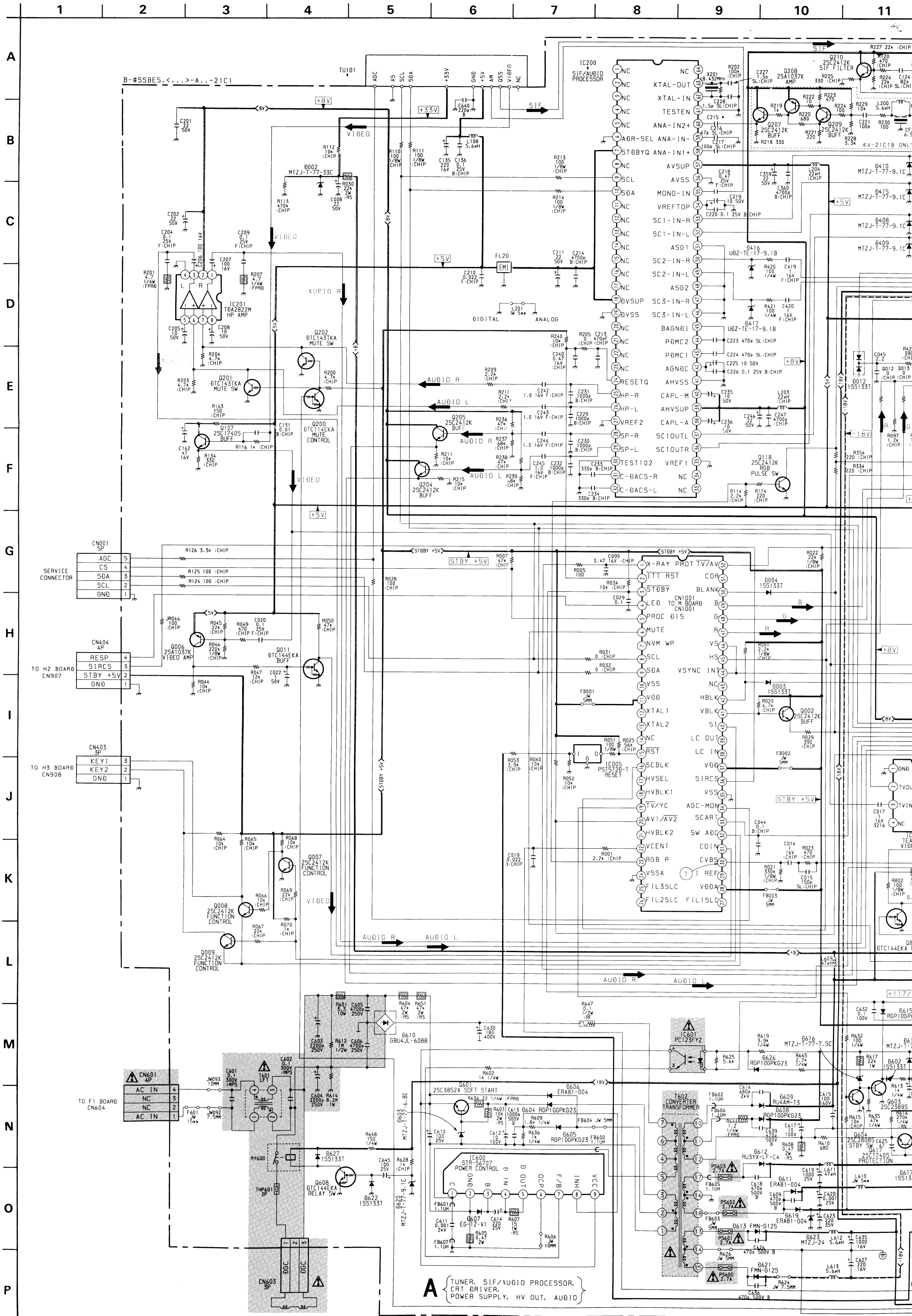
IC Voltage Table

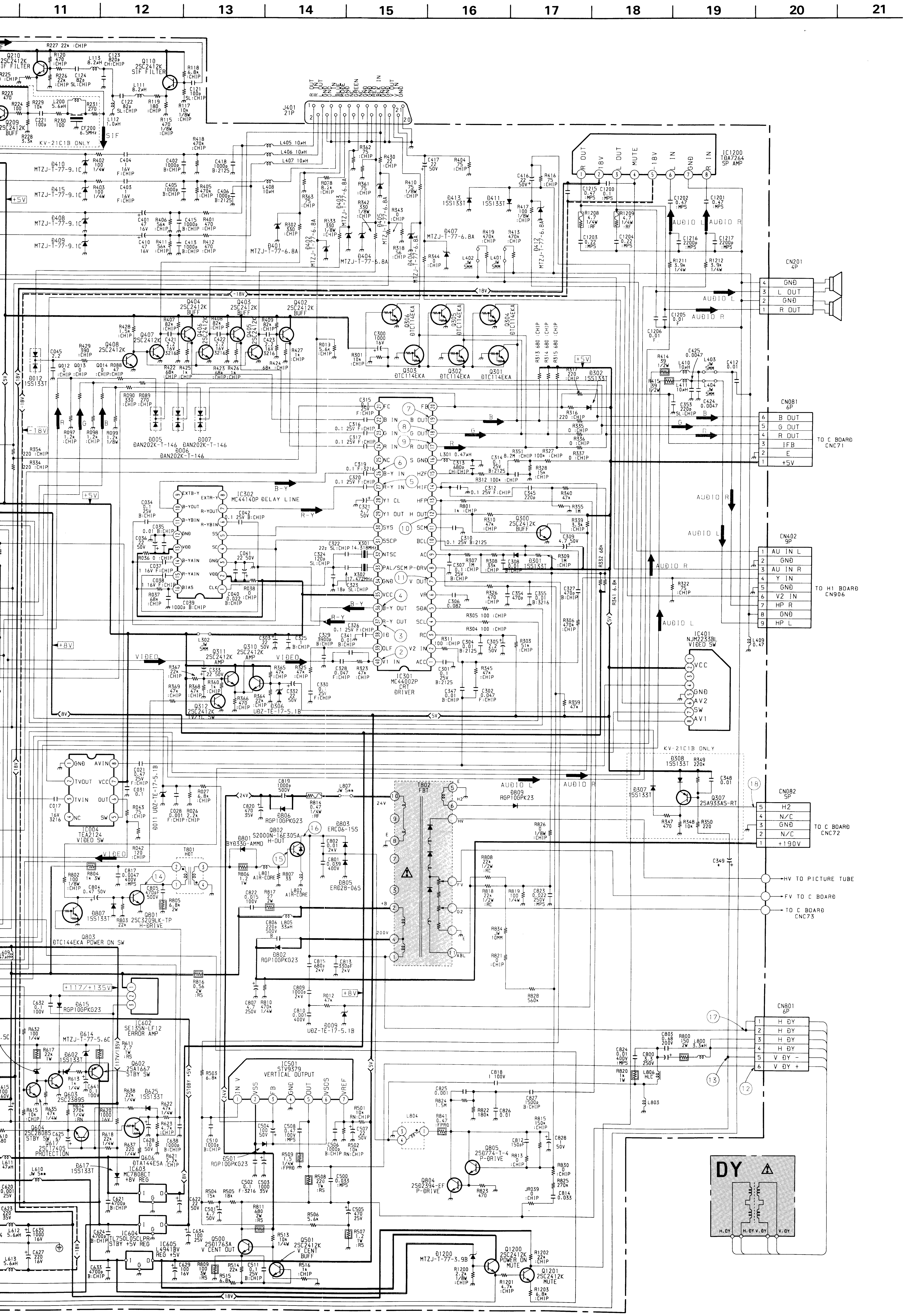
Ref No	Pin No	Voltage (V)
IC004	2	2.0
	3	2.2
	6	1.9
	7	5.0
	8	1.8
IC200	7	4.8
	9	3.1
	10	3.1
	18	4.8
	24	4.5
	31-32	3.8
	36-37	3.8
	38	7.0
	39	8.0
	40	7.0
	42-45	3.8
	49-50	3.8
	52-53	3.8
	54	2.6
	55	3.8
	57	4.8
	58-59	1.5
	62-63	2.4
IC201	1	3.5
	2	8.0
	3	3.5
	5	0.5
	8	0.5
IC301	1	1.6
	2	0.8
	3	1.3
	4-5	3.3
	6	0.9
	7	1.5
	8	1.0
	9	1.3
	10	2.3
	11	1.6
	12	0.3
	13	0.4
	14	1.0
	15	2.1
	17-19	2.4
	20	3.1
	22-23	3.0
	24	2.9
	26-27	3.1
	28	1.0
	31	1.3
	32-33	1.8
	35	4.7
	36	2.5
	37	2.4
	38	0.8
	39	3.0
	40	2.8

Ref No	Pin No	Voltage (V)
IC302	1	1.6
	2	4.7
	4	1.3
	6-7	1.4
	8	0.2
	10-11	1.4
	13	4.7
	14-15	1.1
	16	1.6
IC401	4	2.1
	6	3.0
	7	2.7
	8	3.0
IC501	2	28.3
	3	1.4
	5	20.0
	6	28.6
	7	2.6
IC1200	2	15.8
	4	7.0
	5	-16.0

A BOARD * MARK

Model / Ref. No	21C1B	21C1D	21C1E	21C1K	21C1R
C215	100PF	—	—	—	—
C349	22UF/50V	—	—	—	—
IC200	MSP3410B-PP-F7	MSP3400C-PP-C6	MSP3410B-PP-F7	MSP3400C-PP-C6	MSP3400C-PP-C6
TU101	TUVIF (FR)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (AEP)	TUVIF (AEP)

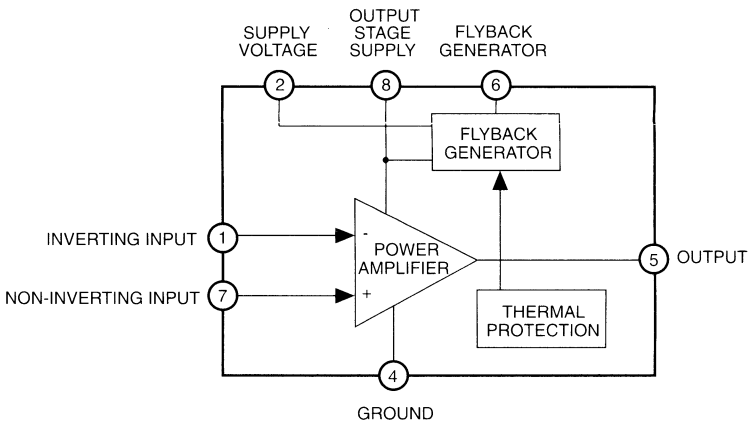

1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J K L M N O P
B-#SSBE5.<...>-A..-21C1
TU101
AGC AS SCL SDA +33V GND +5V AM QSS VIDEO NC
IC200
SIF/AUDIO
PROCESSOR
XTAL-OUT
XTAL-IN
TESTEN
ANA-IN2+
ADR-SEL ANA-IN-
STDBYQ ANA-IN1+
AVSUP
AVSS
MONO-IN
VREFTOP
SC1-IN-R
SC1-IN-L
ASG1
SC2-IN-R
SC2-IN-L
ASG2
SC3-IN-R
SC3-IN-L
BAGNDI
PDMC2
PDMC1
AGNDC
AHVSS
CAPL-M
AHVSUP
CAPL-A
SC1OUTL
SC1OUTR
VREF1
NC
C-DACS-R
C-DACS-L
RESETQ
HP-R
HP-L
VREF2
SP-R
SP-L
TEST102
DVSUP
DVSS
DIGITAL
ANALOG
SIF
VIDEO
AUDIO R
AUDIO L
IC201
TDA2822M
HP AMP
Q201 DTC143TKA MUTE SW
Q202 DTC143TKA MUTE SW
Q200 DTC114EKA MUTE CONTROL
Q205 2SC2412K BUFF
Q204 2SC2412K BUFF
Q107 2SC1740S BUFF
Q006 2SA1037K VIDEO AMP
Q011 DTC144EKA BUFF
Q007 2SC2412K FUNCTION CONTROL
Q008 2SC2412K FUNCTION CONTROL
Q009 2SC2412K FUNCTION CONTROL
Q608 DTC144EKA RELAY SW
Q210 2SC2412K SIF FILTER
Q208 2SA1037K AMP
Q207 2SC2412K BUFF
Q209 2SC2412K BUFF
Q118 2SC2412K RGB PULSE SW
D002 MTZJ-T-77-33C
D410 MTZJ-T-77-9.1C
D415 MTZJ-T-77-9.1C
D408 MTZJ-T-77-9.1C
D409 MTZJ-T-77-9.1C
D416 UDZ-TE-17-9.1B
D417 UDZ-TE-17-9.1B
D012 1SS133T
D004 1SS133T
D003 1SS133T
D602 1SS133T
D627 1SS133T
D622 1SS133T
D610 GBU4JL-6088
D606 ERA81-004
D611 ERA81-004
D619 ERA81-004
D609 RU4AM-T3
D612 RU3YX-LF-C4
D613 FMN-G12S
D621 FMN-G12S
D623 MTZJ-24
D615 RGP10GP
D616 MTZJ-T-77-7.5C
D626 RGP10GPKG23
D608 RGP10GPKG23
D604 RGP10GPKG23
D605 RGP10GPKG23
D607 EG-1Z-V1
D620 MTZJ-T-77-9.1C
D603 MTZJ-T-77-6.8C
IC600 STR-S6707 POWER CONTROL
IC005 PST5720-T RESET
IC601 PC123FY2
T601 LFT
T602 CONVERTER TRANSFORMER
Q601 2SC3852A SOFT START
RY600
THP601 2P
FB001 JW 5MM
FB002 JW 5MM
FB003 JW 5MM
FB600 JW 5MM
FB601 1.1UH
FB602 1.1UH
FB603 JW 5MM
FB604 JW 5MM
FB605 1.1UH
FB606 1.1UH
FB607 1.1UH
FB609 JW 5MM
PS600 2.7A
PS601 2.7A
PS602 2.7A
PS603 2.7A
CN001 5P
SERVICE CONNECTOR
AGC SCL SDA GND
CN404 4P
TO H2 BOARD CN907
RESP SIRCS STBY +5V GND
CN403 3P
TO H3 BOARD CN908
KEY1 KEY2 GND
CN601 4P
TO F1 BOARD CN604
AC IN NC NC AC IN
CN603 3P
DGC DGC
CN1001 TO M BOARD CN1001
X-RAY PROT TV/AV
ITT RST COR
STDBY BLANK
LED B
PROC DIS G
MUTE R
NVM WP VS
SCL HS
SDA VSYNC INT
VSS NC
VDD HBLK
XTAL1 VBLK
XTAL2 S1
NC LC OUT
RST LC IN
SCBLK VDD
HVSEL SIRCS
HVBLK1 VSS
TV/YC AGC-MON
AV1/AV2 SCART
HVBLK2 SW ADC
VCENT COIN
RGB P CVBS
VSSA I REF
FIL3SLC VDDA
FIL2SLC FIL1SLC
+8V +5V +33V -18V +B STBY +5V
A { TUNER, SIF/AUDIO PROCESSOR, CRT DRIVER, POWER SUPPLY, HV OUT, AUDIO }


11 12 13 14 15 16 17 18 19 20 21
J401 21P
IC1200 TDA7264 SP AMP
CN201 4P
GND
L OUT
GND
R OUT
AUDIO L
AUDIO R
CN081 6P
B OUT
G OUT
R OUT
IFB
E
+5V
TO C BOARD CNC71
IC302 MC44140P DELAY LINE
IC301 MC44002P CRT DRIVER
CN402 9P
AU IN L
GND
AU IN R
Y IN
GND
V2 IN
HP R
GND
HP L
TO H1 BOARD CN906
IC401 NJM2233BL VIDEO SW
KV-21C1B ONLY
CN082 5P
H2
N/C
GND
N/C
+190V
TO C BOARD CNC72
IC004 TEA2124 VIDEO SW
T801 HDT
Q802 S2000N-16E305A H-OUT
Q801 2SC3209LK-TP H-DRIVE
Q803 DTC144EKA POWER ON SW
T802 FBT
HV TO PICTURE TUBE
FV TO C BOARD
TO C BOARD CNC73
IC602 SE135N-LF12 ERROR AMP
IC603 MC7808CT +8V REG
IC604 TL750L05CLPR STBY +5V REG
IC605 L4941BV REG +5V
IC501 STV9379 VERTICAL OUTPUT
Q500 2SD1763A V CENT OUT
Q501 2SC2412K V CENT BUFF
Q805 2SD774-T-4 P-DRIVE
Q804 2SD2394-EF P-DRIVE
Q1200 2SC2412K POWER ON MUTE
Q1201 2SC2412K MUTE
CN801 6P
H DY
H DY
H DY
H DY
V DY -
V DY +
DY
H.DY
H.DY V.DY
V.DY

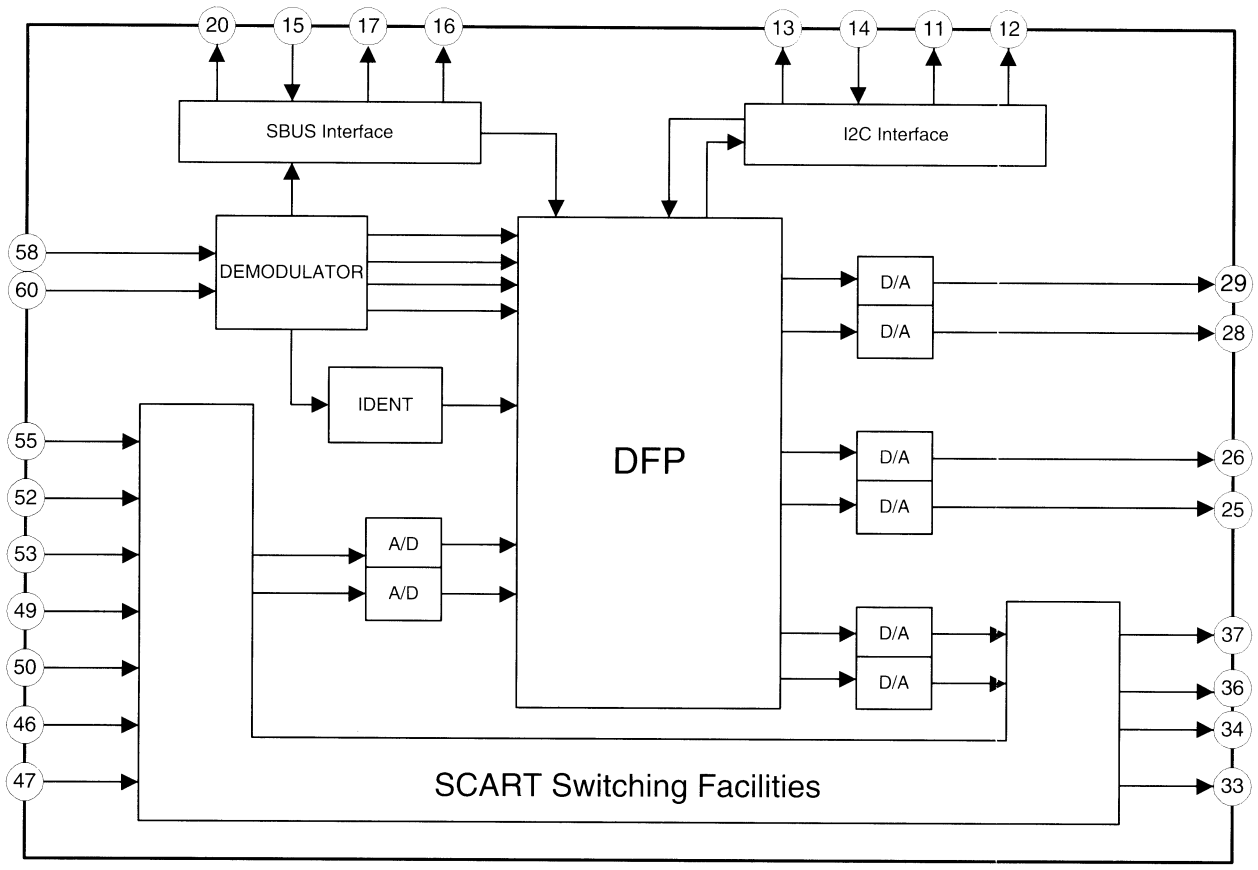
WAVEFORMS A BOARD

① 2.0 Vp-p (H)	② 1.0 Vp-p (H)	③ 1.0 Vp-p (H)	④ PAL 1.0 Vp-p (H)	④ SECAM/NTSC 1.2 Vp-p (H)
⑤ PAL 1.0 Vp-p (H)	⑤ SECAM 0.5 Vp-p (H)	⑤ NTSC 1.1 Vp-p (H)	⑥ PAL 1.4 Vp-p (H)	⑥ SECAM 0.7 Vp-p (H)
⑥ NTSC 1.5 Vp-p (H)	⑦ 2.0 Vp-p (H)	⑧ 2.3 Vp-p (H)	⑨ 2.3 Vp-p (H)	⑩ 0.8 Vp-p (H)
⑪ 1.8 Vp-p (H)	⑫ 55 Vp-p (H)	⑬ 8.4 Vp-p (H)	⑭ 220 Vp-p (H)	⑮ 10 Vp-p (H)
⑯ 1.4KVp-p (H)	⑰ 210 Vp-p (H)	⑱ 24 Vp-p (H)		

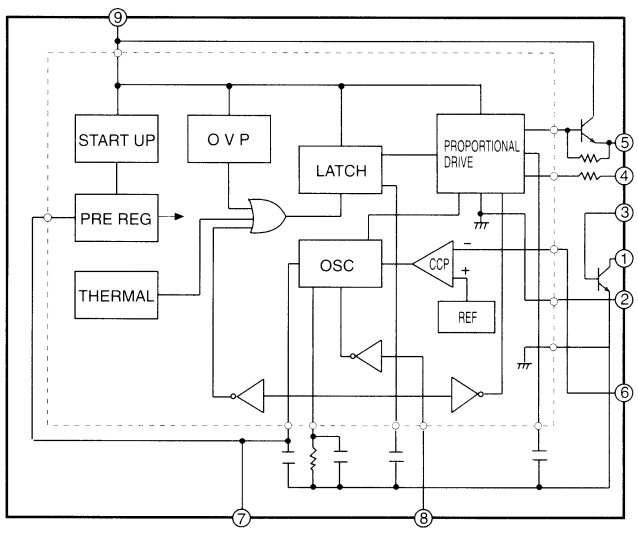
A BOARD IC501 STV9379



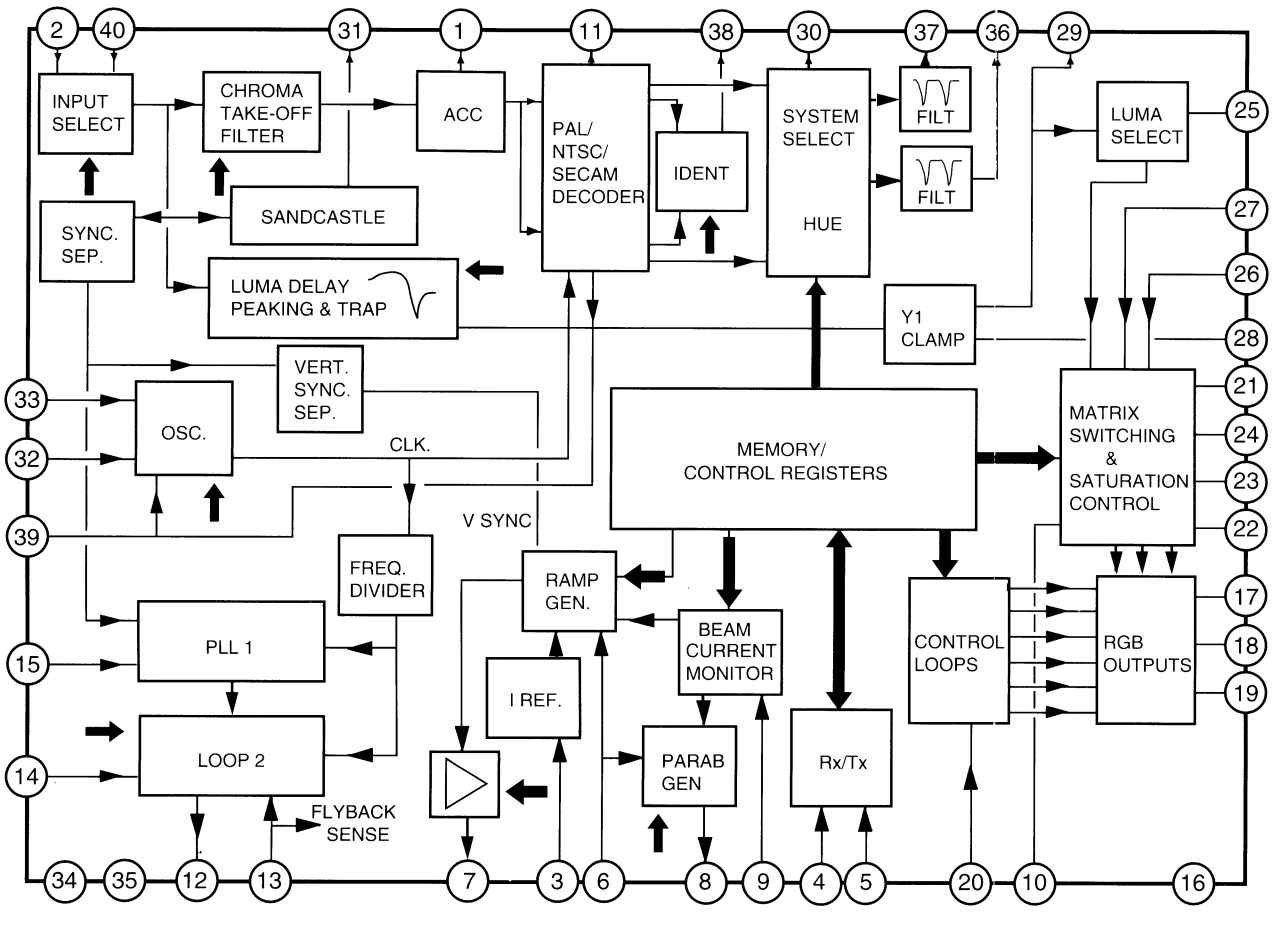
A BOARD IC200 MSP3400C-PP-C6/MSP3410B-PP-F7



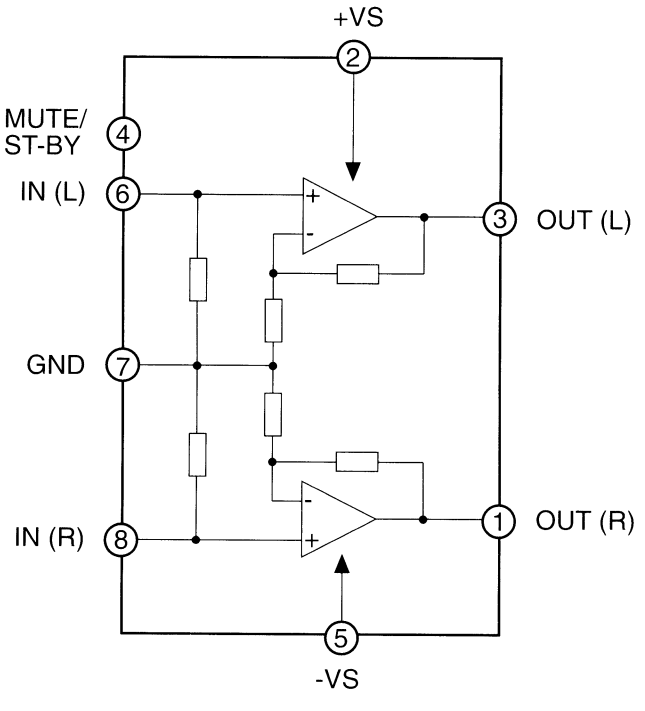
A BOARD IC600 STR-S6707



A BOARD IC301 MC44002P



A BOARD IC1200 TDA7264



B-#SSBE5.<...>-M..-21C1

M { RGB DECODER, SYSTEM CONTROL }

STBY 5V

C1011 0.1 25V

IC1003 ST24W04FM6TR MEMORY

R1043 2.2k :CHIP

R1013 4.7k :CHIP

R1014 4.7k :CHIP

STBY+5V

JR1001 0 :CHIP

R1011 100 :CHIP

R1012 100 :CHIP

R1036 100 :CHIP

R1035 100 :CHIP

R1034 100 :CHIP

R1033 100 :CHIP

R1032 100 :CHIP

R1037 100 :CHIP

FB1001 1.1UH

C1001 4700p :CHIP

C1002 22 16V

R1038 100 :CHIP

R1039 100 :CHIP

R1040 100 :CHIP

R1041 100 :CHIP

R1042 100 :CHIP

IC1004 M27C512-90C1-BE5-1 EPROM

C1016 0.1

R1009 100 :CHIP

R1010 100 :CHIP

C1008 47p :CHIP

C1009 68p :CHIP

L1001 4.7μH

R1017 100 :CHIP

R1016 100 :CHIP

R1015 100 :CHIP

CN1001 TO A BOARD IC001

VIDEO

FB1002 1.1UH

R1002 82k :CHIP

C1017 0.1

R1004 6.8k :CHIP

R1003 8.2k :CHIP

R1005 6.8k :CHIP

R1006 2.2M :CHIP

C1003 4700p :CHIP

C1004 22 16V

C1005 0.15

C1006 0.033 B

C1007 0.033 B

IC1002 * SYSTEM CONT RGB DECODER

CF1001 18MHz

C1014 33p :CHIP

C1012 33p :CHIP

C1015 2.2 F:CHIP

FB1003 1.1UH

R1001 100 :CHIP

C1010 1000p B:CHIP

C1013 100 6.3V

R1019 100 :CHIP

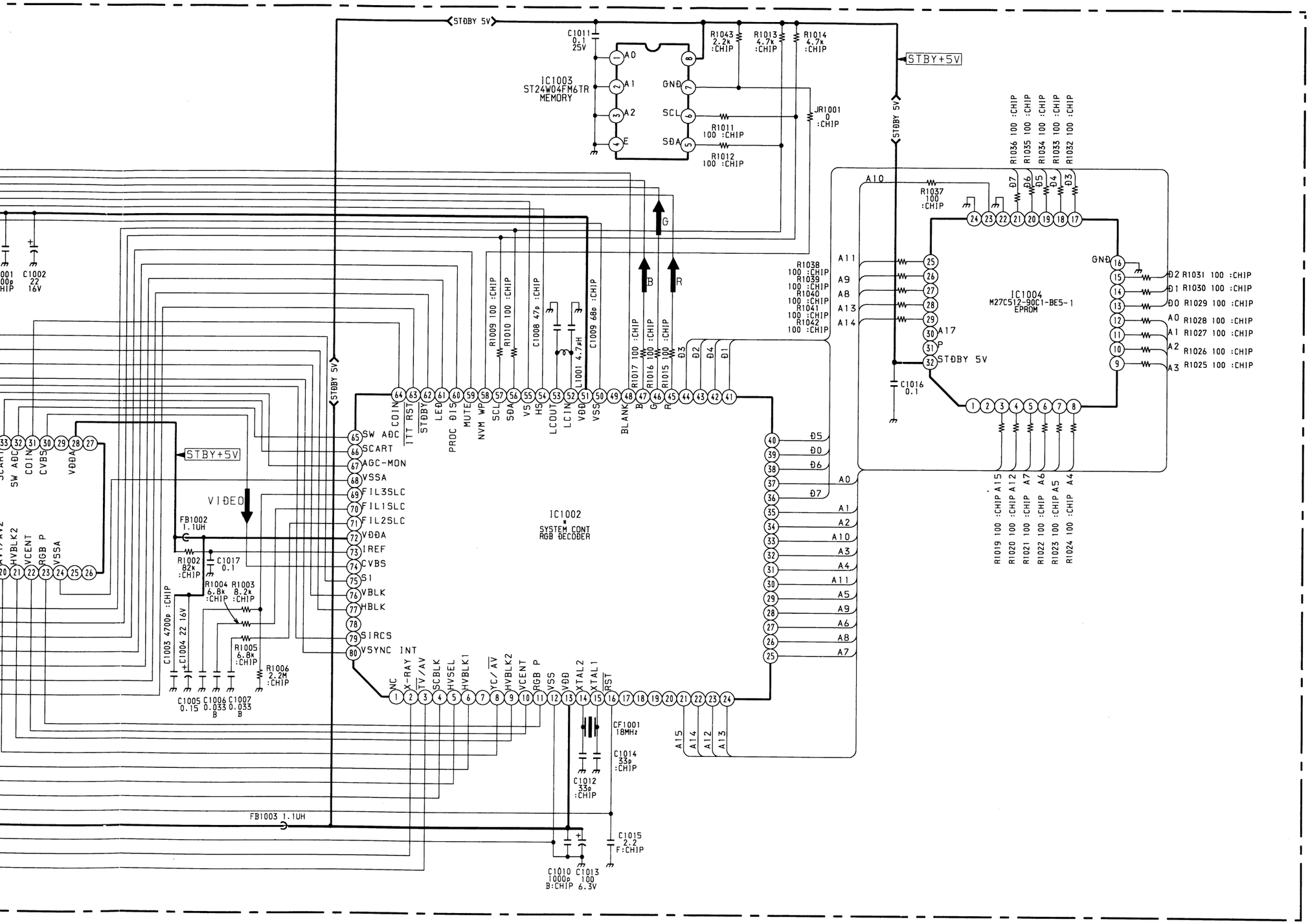
R1020 100 :CHIP

R1021 100 :CHIP

R1022 100 :CHIP

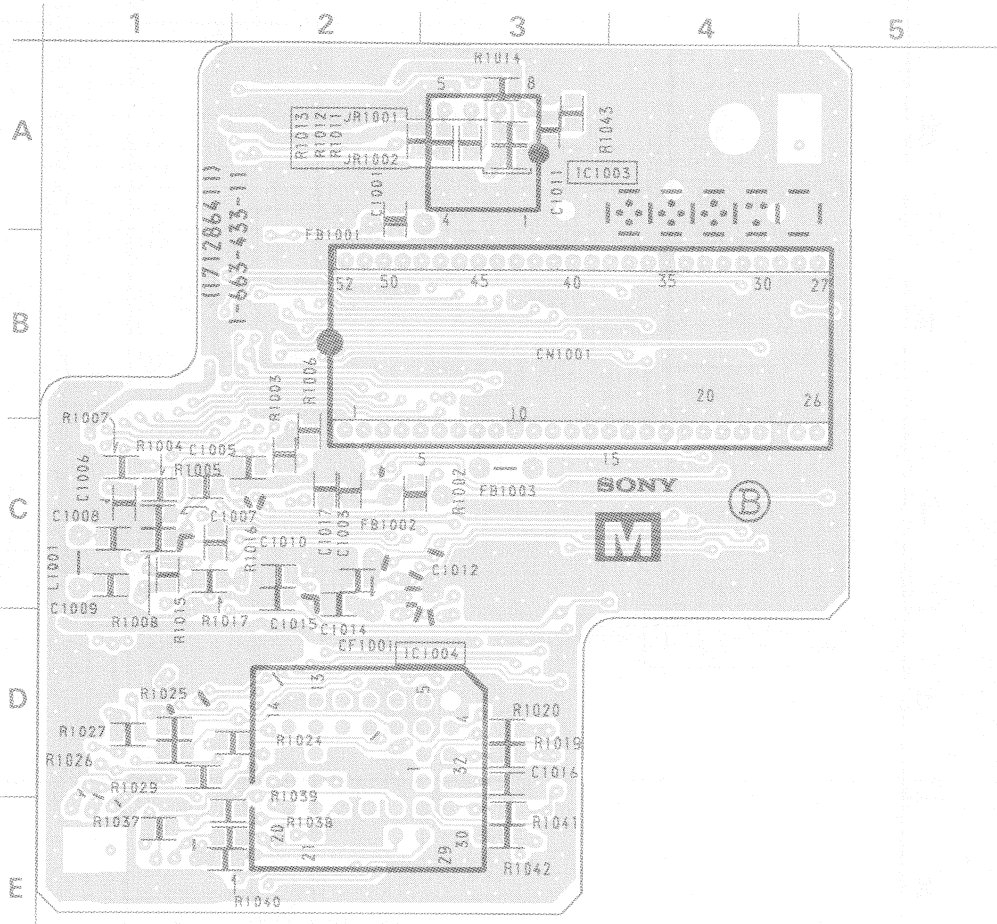
R1023 100 :CHIP

R1024 100 :CHIP

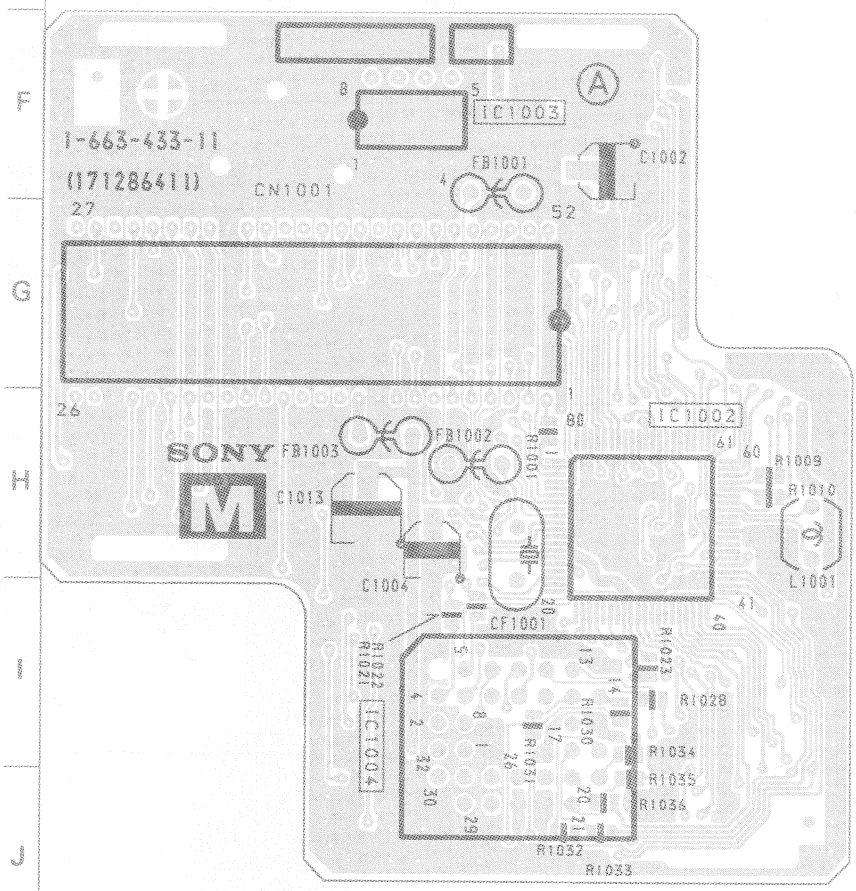

STØBY 5V
STBY+5V
IC1003
ST24W04FM6TR
MEMORY
C1011 0.1 25V
R1043 2.2k :CHIP
R1013 4.7k :CHIP
R1014 4.7k :CHIP
JR1001 0 :CHIP
R1011 100 :CHIP
R1012 100 :CHIP
IC1004
M27C512-90C1-BE5-1
EPROM
R1037 100 :CHIP
R1038 100 :CHIP
R1039 100 :CHIP
R1040 100 :CHIP
R1041 100 :CHIP
R1042 100 :CHIP
C1016 0.1
R1036 100 :CHIP
R1035 100 :CHIP
R1034 100 :CHIP
R1033 100 :CHIP
R1032 100 :CHIP
R1031 100 :CHIP
R1030 100 :CHIP
R1029 100 :CHIP
R1028 100 :CHIP
R1027 100 :CHIP
R1026 100 :CHIP
R1025 100 :CHIP
R1019 100 :CHIP
R1020 100 :CHIP
R1021 100 :CHIP
R1022 100 :CHIP
R1023 100 :CHIP
R1024 100 :CHIP
IC1002
SYSTEM CONT
RGB DECODER
VIDEO
FB1002 1.1UH
FB1003 1.1UH
R1002 82k :CHIP
C1017 0.1
R1004 6.8k :CHIP
R1003 8.2k :CHIP
R1005 6.8k :CHIP
R1006 2.2M :CHIP
C1003 4700p :CHIP
C1004 22 16V
C1005 0.15
C1006 0.033 B
C1007 0.033 B
R1009 100 :CHIP
R1010 100 :CHIP
C1008 47p :CHIP
C1009 68p :CHIP
L1001 4.7µH
R1017 100 :CHIP
R1016 100 :CHIP
R1015 100 :CHIP
CF1001 18MHz
C1014 33p :CHIP
C1012 33p :CHIP
C1015 2.2 F:CHIP
C1010 1000p B:CHIP
C1013 100 6.3V
SW ADC
COIN
CVBS
VDDA
HVBLK2
VCENT
RGB P
VSSA
SCART
AGC-MON
VSSA
FIL3SLC
FIL1SLC
FIL2SLC
VDDA
IREF
CVBS
S1
VBLK
HBLK
SIRCS
VSYNC INT
COIN
ITT RST
STØBY
LED
PROC DIS
MUTE
NVM WP
SCL
SDA
VS
HS
LCOUT
LCIN
VDD
VSS
BLANK
B
G
R
NC
X-RAY
TV/AV
SCBLK
HVSEL
HVBLK1
YC/AV
HVBLK2
VCENT
RGB P
VSS
VDD
XTAL2
XTAL1
RST

M RGB DECODER, SYSTEM CONTROL

M Board < Conductor Side >

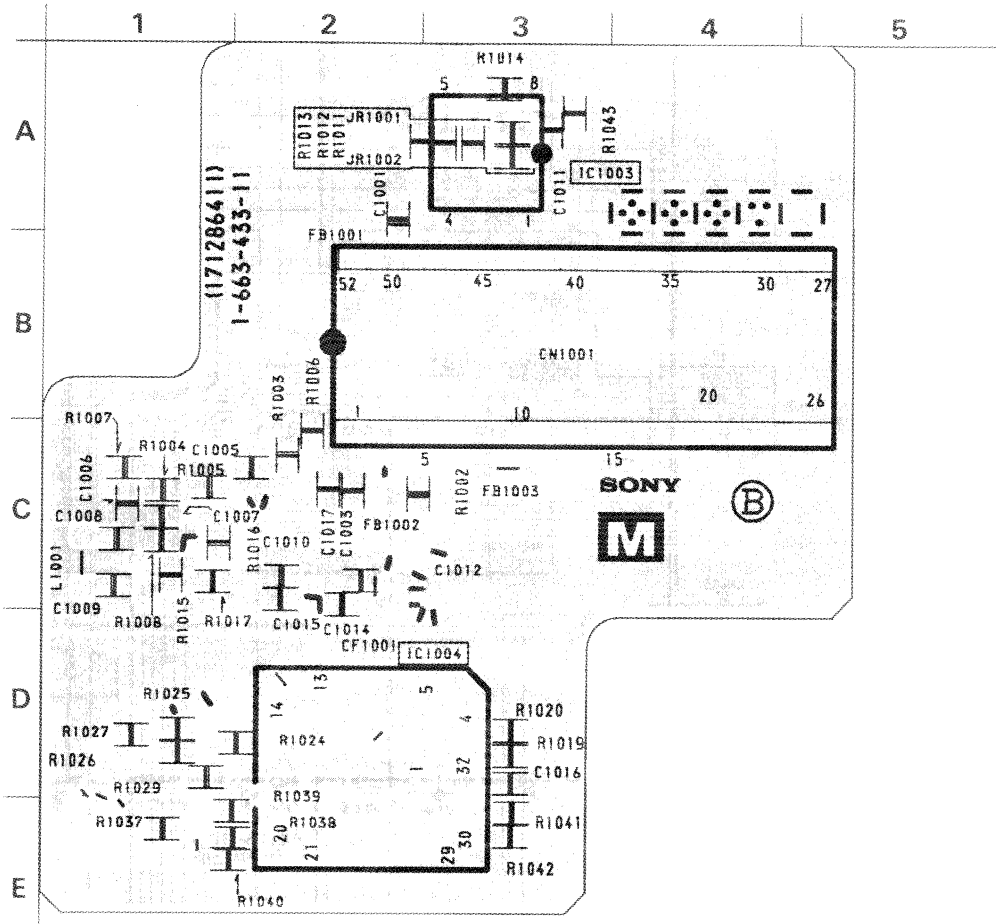


M Board < Component Side >

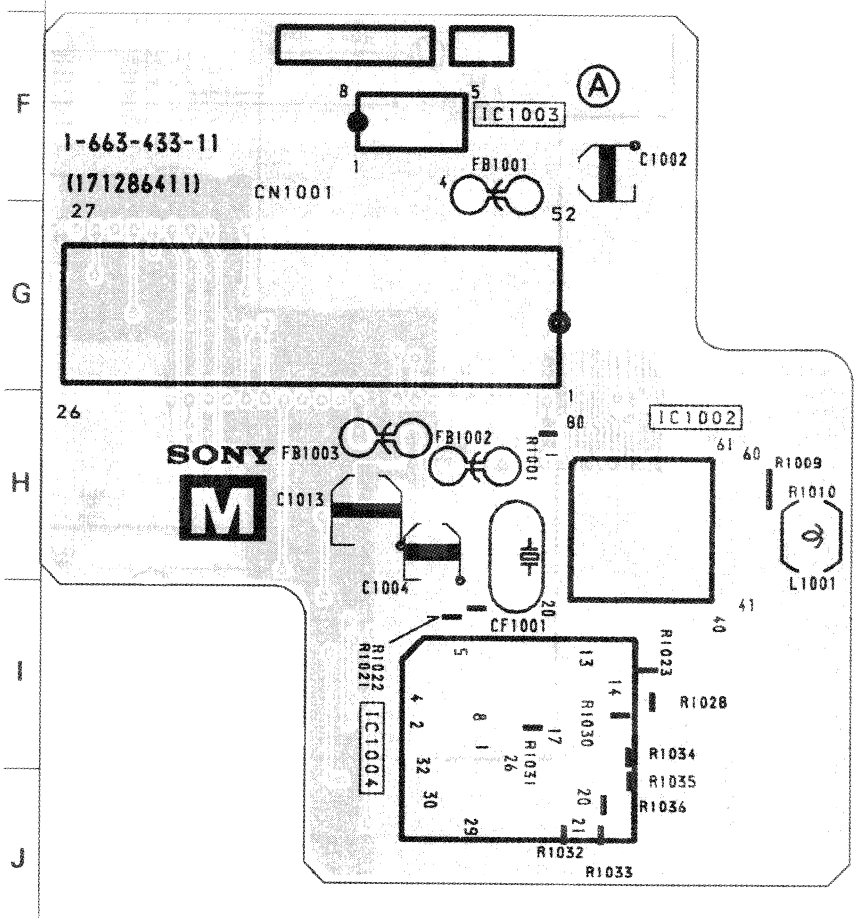


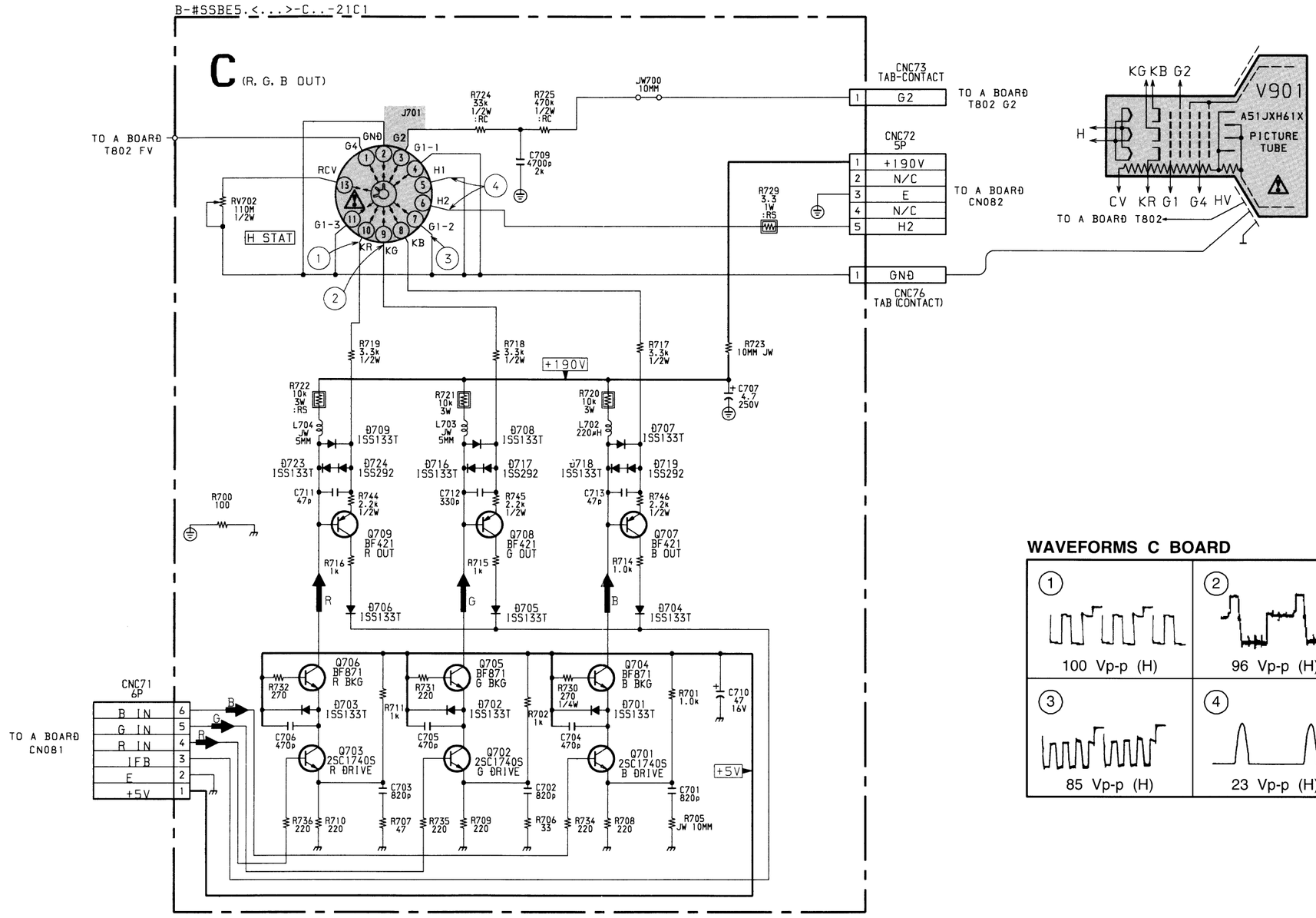
M RGB DECODER, SYSTEM CONTROL

M Board < Conductor Side >



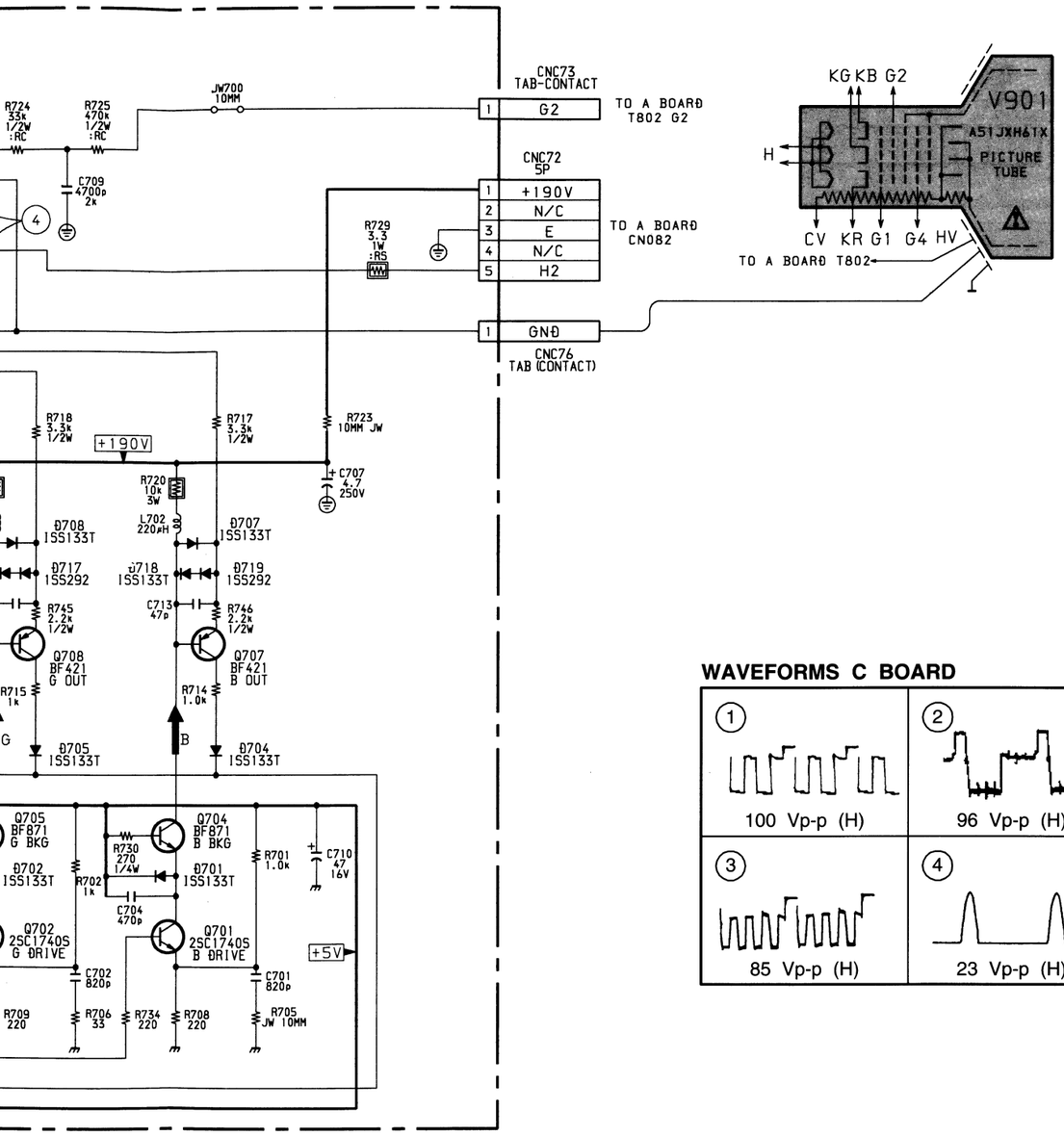
M Board < Component Side >





WAVEFORMS C BOARD

① 100 Vp-p (H)	② 96 Vp-p (H)
③ 85 Vp-p (H)	④ 23 Vp-p (H)

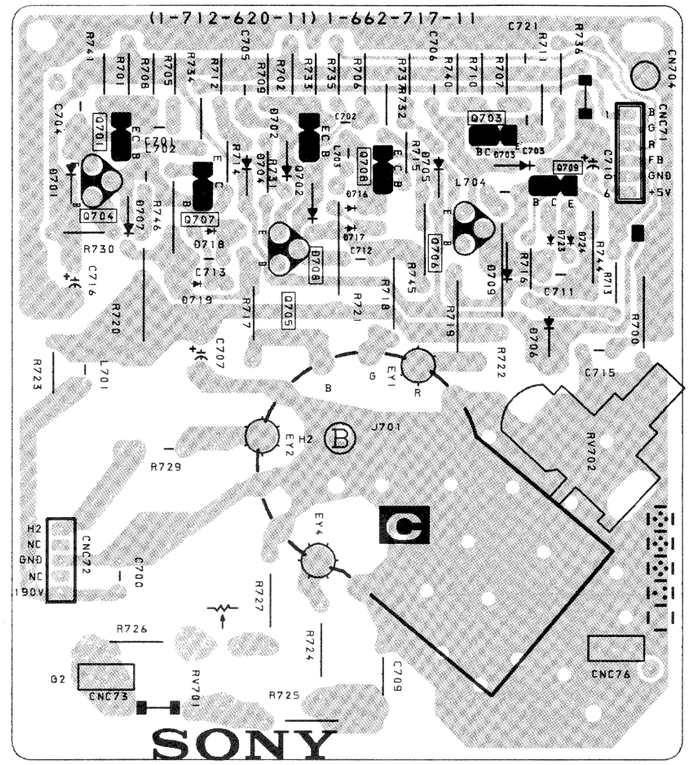


WAVEFORMS C BOARD

① 100 Vp-p (H)	② 96 Vp-p (H)
③ 85 Vp-p (H)	④ 23 Vp-p (H)

C [R,G,B OUT]

C Board

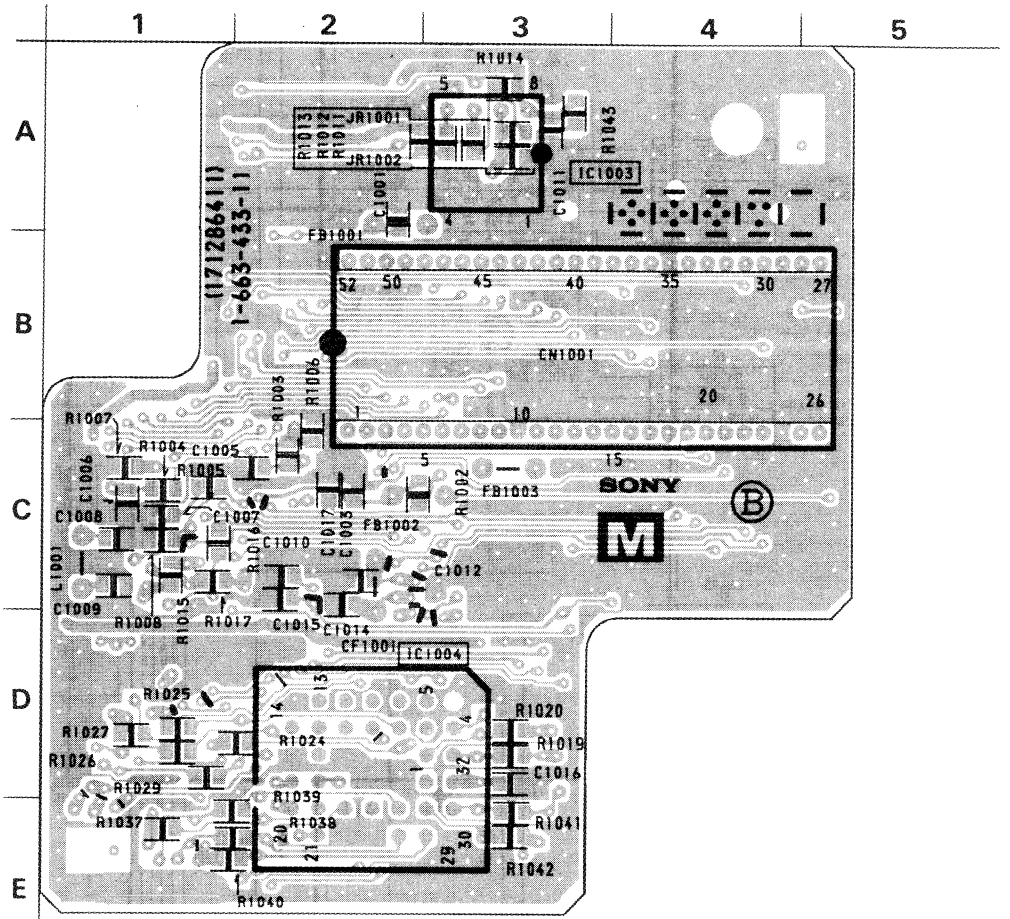


C BOARD
TRANSISTOR VOLTAGE TABLE

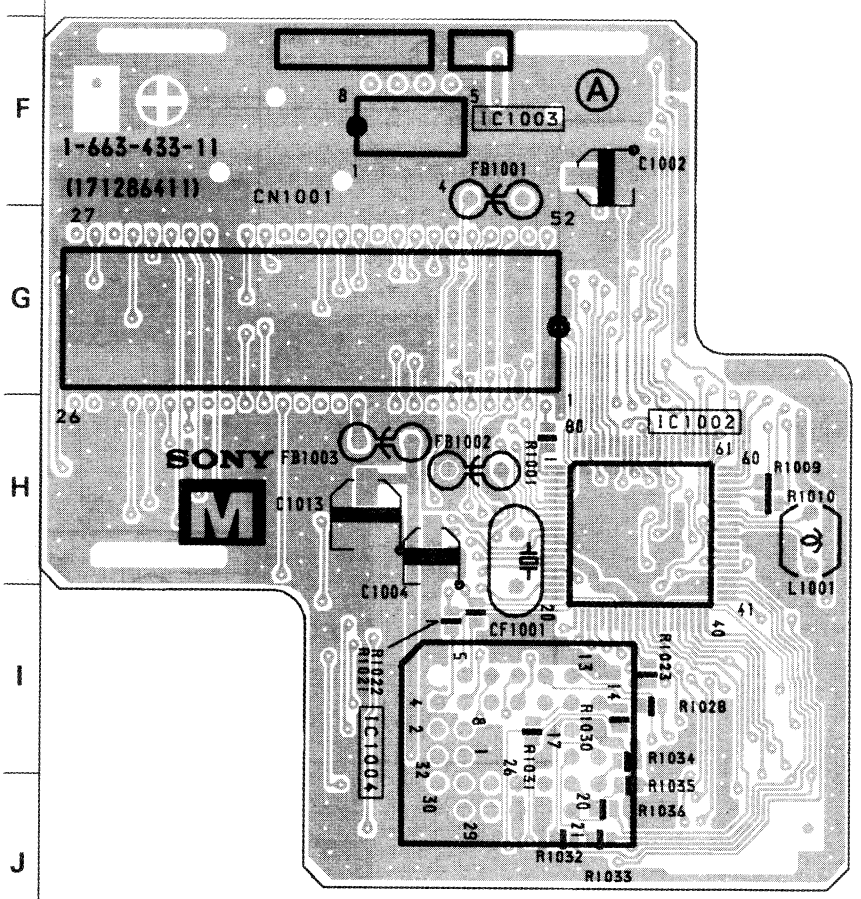
Transistor Voltage Table			
Ref No	B Base	C Collector	E Emitter
Q701	2.5	4.3	1.8
Q702	2.5	4.3	1.8
Q703	2.3	4.3	1.7
Q704	5.0	144.8	4.3
Q705	5.0	149.2	4.3
Q706	5.0	152.3	4.3
Q707	144.8	3.5	152.3
Q708	149.2	3.5	149.2
Q709	151.7	3.5	172.1

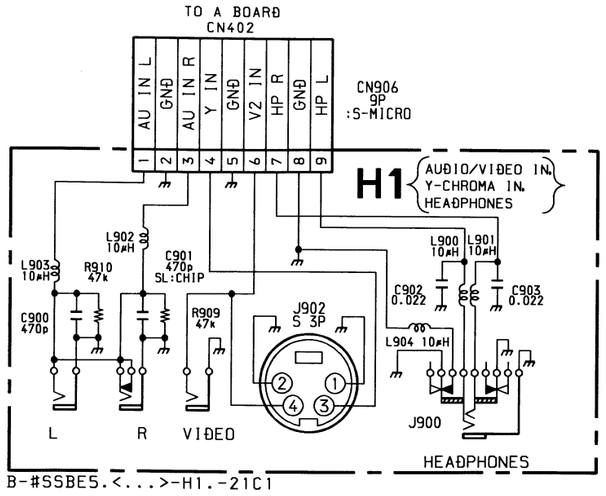
M [RGB DECODER, SYSTEM CONTROL]

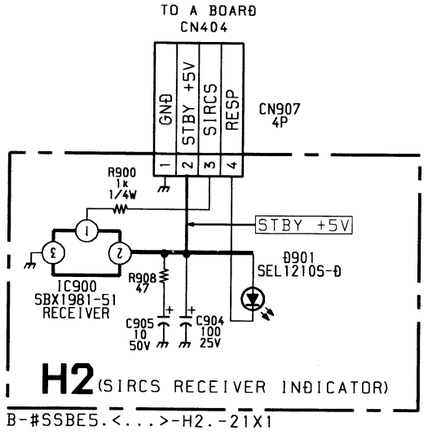
M Board < Conductor Side >

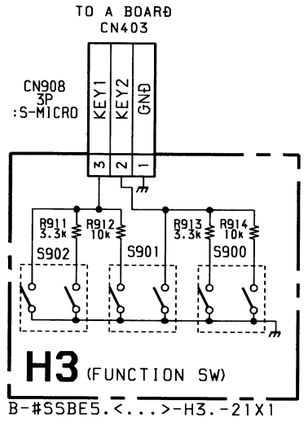


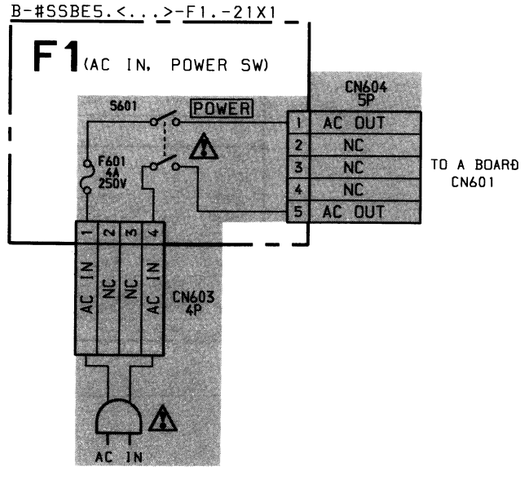
M Board < Component Side >





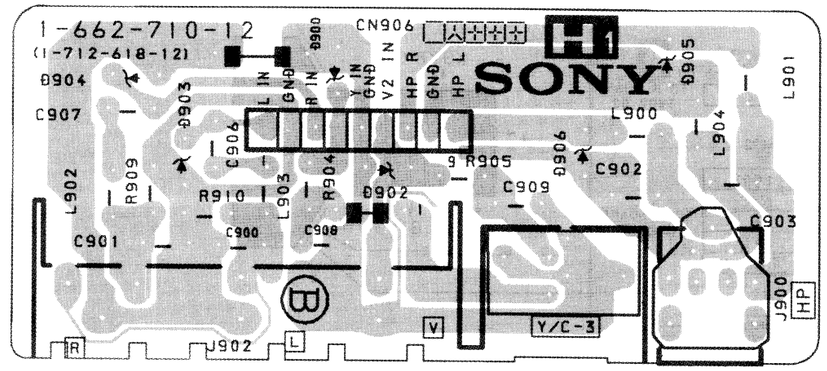




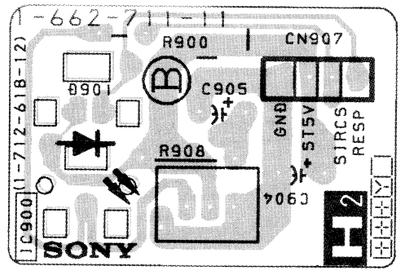


H1 [AUDIO/VIDEO IN, Y-CHROMA IN, HEADPHONES] **H2** [SIRCS RECEIVER, INDICATOR] **H3** [FUNCTION SW] **F1** [AC IN, POWER SW]

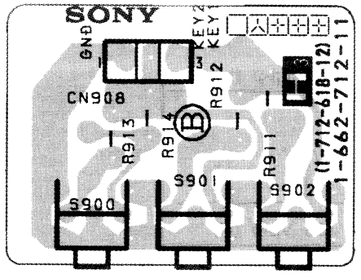
H1 Board



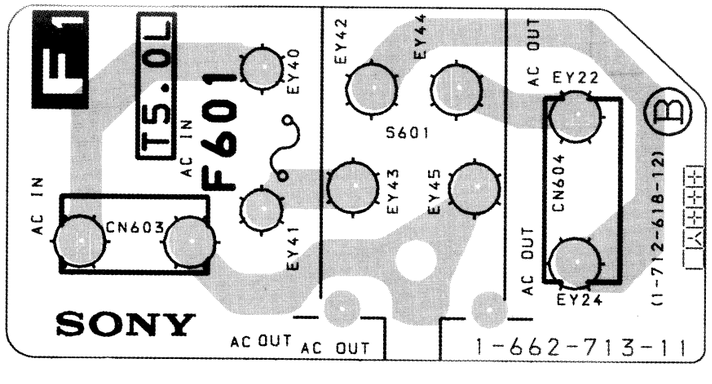
H2 Board



H3 Board

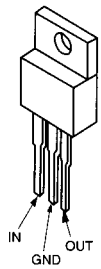


F1 Board

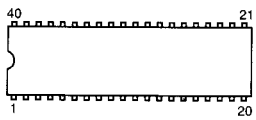


5-4. SEMICONDUCTORS

L4941BV
LM7808CT
MC7808CT
TEA7605
TL750L05CLPR

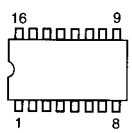


MC44002P



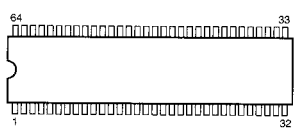
(TOP VIEW)

MC44140P



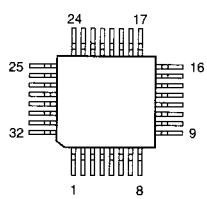
(TOP VIEW)

MSP3400C-PP-C6
MSP3410B-PP-F7



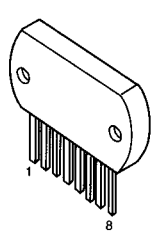
(TOP VIEW)

M27C512-90C1-BE5-1

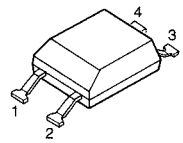


(TOP VIEW)

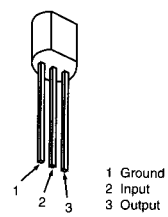
NJM2233BL



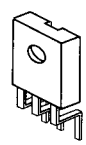
PC123F2
PC123FY2



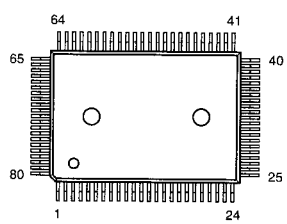
PST572D
PST572D-T



SBX1981-51

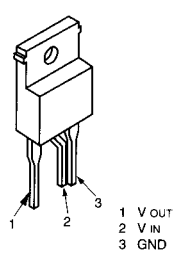


SDA5250M-C9-GEG
SDA5250M-C10-GEG

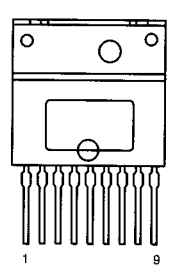


(MARKING SIDE VIEW)

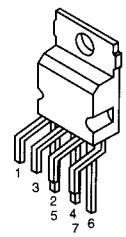
SE-135N
SE135N-LF12



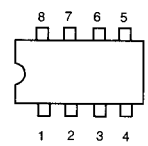
STR-S6707



STV9379

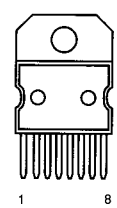


TDA2822M
TEA2124

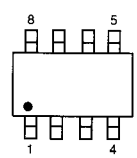


(TOP VIEW)

TDA7264

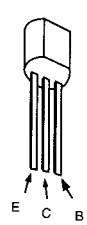


ST24W04FM6TR

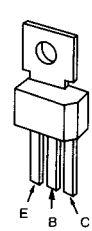


(TOP VIEW)

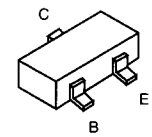
BF421-AMMO
2SA1091-O



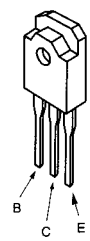
BF871-127



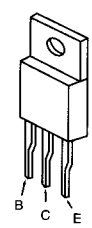
DTA144ESA
DTA144ESA-TP
DTC114EK
DTC114EKA-T146
DTC143TKA-T146
DTC144EKA-T146
2SA1037K-T-146-R
2SA1162-G
2SC2412K-QR
2SC2412K-T-146-R



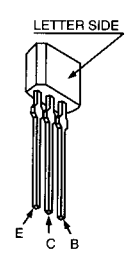
S2000N-16E305A



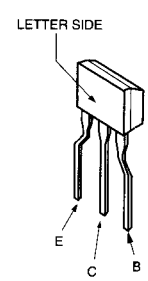
2SA1667
2SC3852A
2SD2394-EF



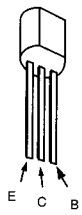
2SA933AS-QRT
2SA933AS-RT
2SC1740S-RT



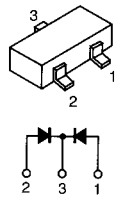
2SC2389STP-R



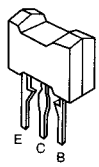
2SC2785-HFE



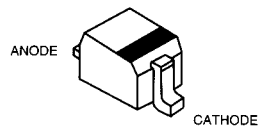
DAN202K
DAN202K-T-146



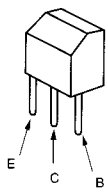
2SC2808STP-R



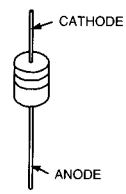
DTZ5.1B
DTZ9.1
UDZ-TE-17-5.1B
UDZ-TE-17-9.1B



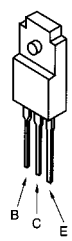
2SC3209LK
2SC3209LK-TP
2SD774-T-4
2SD774-34



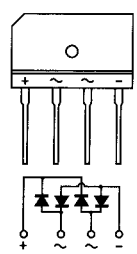
ERA81-004TP1
ERA83-006
MTZJ-T-77-12A
MTZJ-T-77-33C
MTZJ-T-77-3.9B
MTZJ-T-77-5.6C
MTZJ-T-77-6.8A
MTZJ-T-77-6.8C
MTZJ-T-77-7.5C
MTZJ-T-77-9.1C
MTZJ-12A
MTZJ-33C
RD3.9ES-B2
RD5.6ESB2
RD6.8ES-B2
RD7.5ESB2
RD9.1ES-B3
1SS133T-77



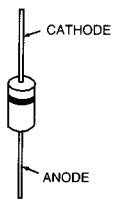
2SC4793
2SD1763A



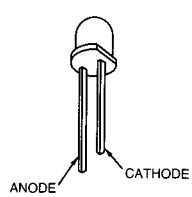
GBU4JL-6088



BYD33G
BYD33G-AMMO
EG-1Z-V1
EL1Z
ERC06-15S
ERD28-06S
ERD28-08S
FMN-G12S
RGP10GPKG23
RU3YX-LF-C4
RU-3YX-V1
RU4AM-T3
1SS292T-77



SEL1210S-CD
SEL1210S-D



SECTION 6
EXPLODED VIEWS

NOTE :

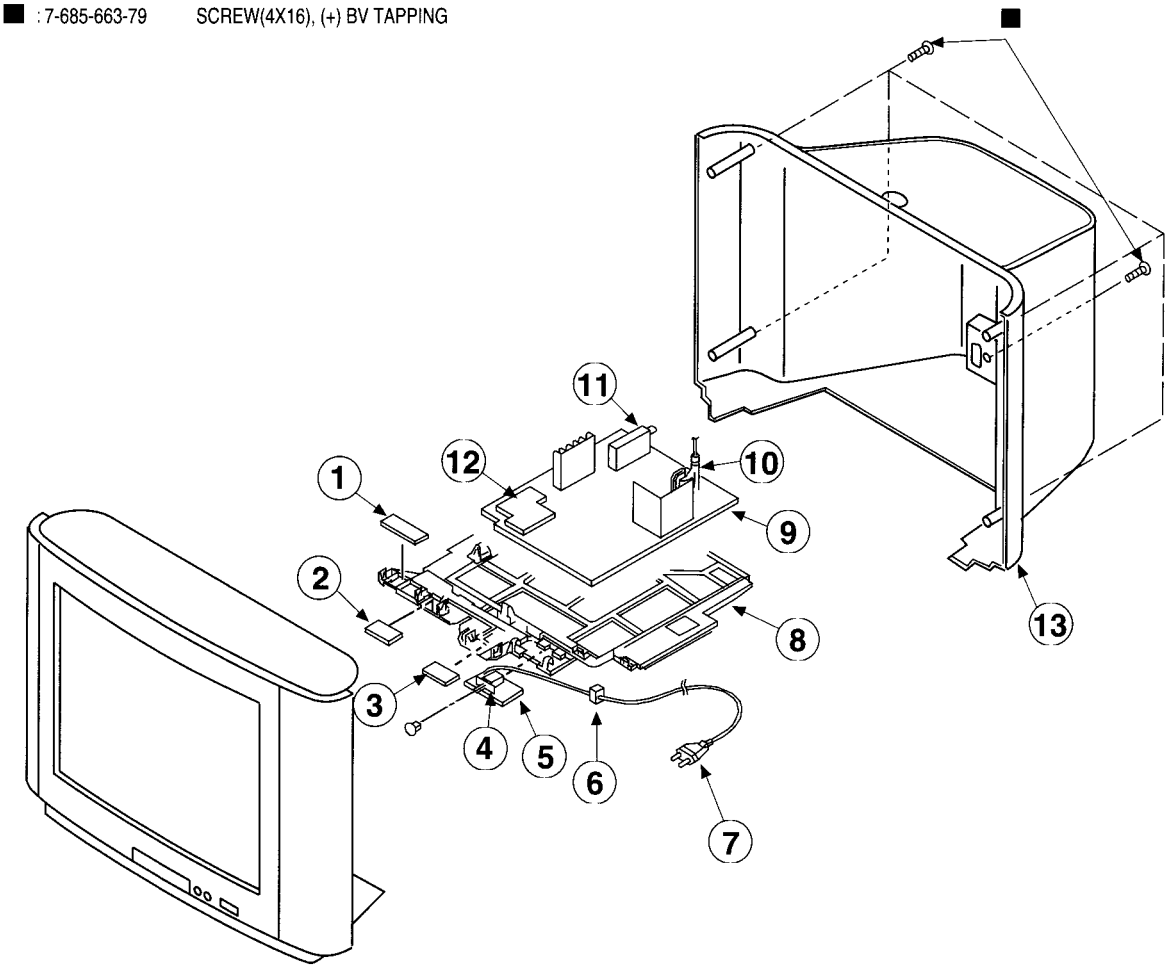
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked ! are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ! sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

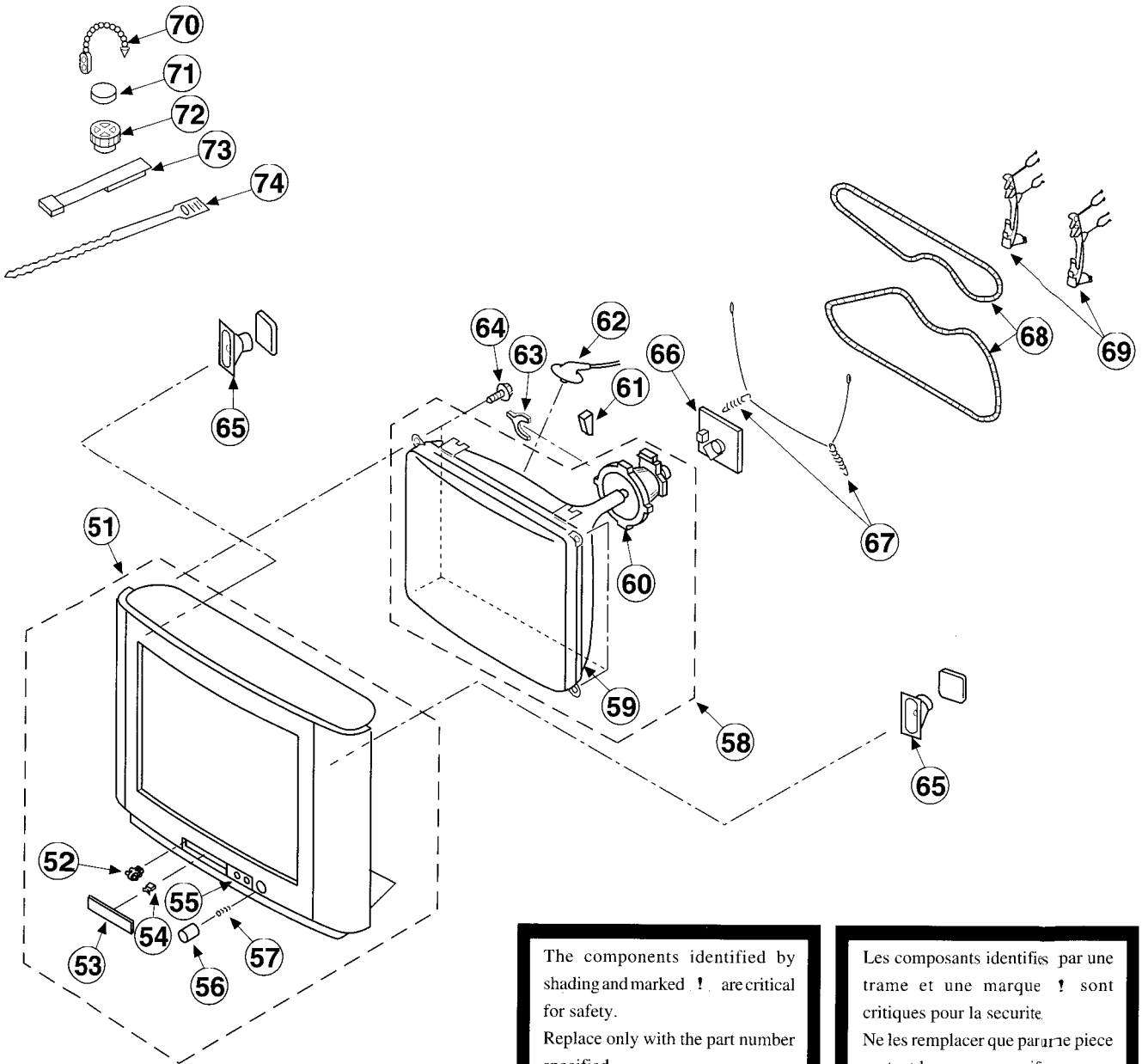
6-1. CHASSIS

■ : 7-685-663-79 SCREW(4X16), (+) BV TAPPING



REF NO		PART NO	DESCRIPTION	REMARK
1		*A-1646-130-A	H1 BOARD, COMPLETE	
2		*A-1646-132-A	H3 BOARD, COMPLETE	
3		*A-1646-131-A	H2 BOARD, COMPLETE	
4	!	1-571-433-11	SWITCH, PUSH (AC POWER)	
5		*A-1624-061-A	F1 BOARD, COMPLETE	
6	!	4-389-201-11	AC CORD, HOLDER	
7	!	1-765-286-11	CORD, POWER (WITH NOISE FILTER) 2.5A/250V	
8		*4-203-605-11	BRACKET	
9		*A-1632-547-A	A BOARD, COMPLETE (KV-21C1B)	
		*A-1632-558-A	A BOARD, COMPLETE (KV-21C1D)	
		*A-1632-548-A	A BOARD, COMPLETE (KV-21C1E)	
		*A-1632-560-A	A BOARD, COMPLETE (KV-21C1K)	
		*A-1632-561-A	A BOARD, COMPLETE (KV-21C1R)	
10	!	1-453-199-11	TRANSFORMER ASSY, FLYBACK (NX-1741/U2A)	
11		1-693-340-11	TUNER/VIF (FR) (KV-21C1B)	
		1-693-338-11	TUNER/VIF (AEP) (KV-21C1D/21C1E/21C1K/21C1R)	
12		*A-1634-042-A	M BOARD, COMPLETE	
13		4-203-604-01	COVER, REAR	

6-2. PICTURE TUBE



The components identified by shading and marked ! are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ! sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF NO		PART NO	DESCRIPTION	REMARK
51		X-4200-233-2	BEZNET ASSY (KV-21C1B/21C1E) 52-57	
		X-4200-233-1	BEZNET ASSY (KV-21C1D/21C1K/21C1R)	
52		3-703-035-11	SHAFT, LID	
53		4-203-179-11	DOOR, CONTROL (PAINTED)	
54		4-047-464-01	CATCHER PUSH	
55		4-203-175-01	WINDOW ORNAMENTAL	
56		4-203-176-01	BUTTON, POWER	
57		4-202-964-01	SPRING	
58	!	8-738-787-71	ITC	
59	!	8-738-784-05	PICTURE TUBE (SD-169) (A51JXH61X)	
60	!	8-451-295-45	DEFLECTION YOKE (Y21PFA2BA)	
61		3-704-495-01	SPACER, DY	
62	!	1-540-006-22	CAP ASSY, HIGH-VOLTAGE	
63		1-452-277-00	MAGNET, BMC	
64		4-203-043-01	SCREW (M), PT	
65		1-504-570-11	SPEAKER (7.5X13CM)	
66		*A-1638-102-A	C BOARD, COMPLETE	
67		4-369-318-21	SPRING, TENSION	
68	!	1-411-922-11	COIL, DEGAUSSING	
69		*4-386-622-11	BAND, DGC	
70		4-308-870-00	CLIP, LEAD WIRE	
71		1-452-032-00	MAGNET, DISK; 10MM Ø	
72		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
73		X-4387-214-1	PERMALLOY ASSY, CORRECTION	
74		3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

The components identified by shading and marked ! are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ! sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

When indicating parts by reference number, please include the board name.

CAPACITORS MF : mF, PF : mmF

COILS MMH : mH, µH : m

F1 A and M

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1624-061-A	F1 BOARD, COMPLETE **********	
		< CONNECTOR >	
CN603	*1-580-844-11	PIN, CONNECTOR (POWER)	
CN604	*1-695-292-11	PIN, CONNECTOR (POWER)	
		< FUSE >	
F601	1-532-504-41	FUSE (4A 250V)	
	*1-533-725-11	HOLDER, FUSE ; F601	
		< SWITCH >	
S601	1-571-433-31	SWITCH, PUSH (AC POWER)	
	*A-1632-547-A	A AND M BOARD, COMPLETE (KV-21C1B) **********	
	*A-1632-558-A	A AND M BOARD, COMPLETE (KV-21C1D) **********	
	*A-1632-548-A	A AND M BOARD, COMPLETE (KV-21C1E) **********	
	*A-1632-560-A	A AND M BOARD, COMPLETE (KV-21C1K) **********	
	*A-1632-561-A	A AND M BOARD, COMPLETE (KV-21C1R) **********	
	*1-778-824-11	PIN, CONNECTOR	
		< CAPACITOR >	
C008	1-126-965-11	ELECT 22MF 20%	50V
C014	1-164-346-11	CERAMIC CHIP 1MF	16V
C015	1-163-121-00	CERAMIC CHIP 150PF 5%	50V
C017	1-162-638-11	CERAMIC CHIP 1MF	16V
C019	1-163-037-11	CERAMIC CHIP 0.022MF 10%	50V
C020	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C021	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C022	1-124-903-11	ELECT 1MF 20%	50V
C028	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C029	1-163-077-00	CERAMIC CHIP 0.1MF	50V
C031	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C034	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C035	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C036	1-126-965-11	ELECT 22MF 20%	50V
C037	1-164-346-11	CERAMIC CHIP 1MF	16V
C038	1-164-346-11	CERAMIC CHIP 1MF	16V
C039	1-163-205-00	CERAMIC CHIP 0.001MF 10%	50V
C040	1-163-037-11	CERAMIC CHIP 0.022MF 10%	50V
C041	1-126-965-11	ELECT 22MF 20%	50V
C042	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C044	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C045	1-124-257-00	ELECT 2.2MF 20%	50V
C099	1-165-320-11	CERAMIC CHIP 0.47MF 10%	16V
C121	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C122	1-163-249-11	CERAMIC CHIP 82PF 5%	50V
C123	1-163-139-00	CERAMIC CHIP 820PF 5%	50V
C124	1-163-249-11	CERAMIC CHIP 82PF 5%	50V
C131	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C135	1-126-934-11	ELECT 220MF 20%	16V
C136	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C162	1-126-967-11	ELECT 47MF 20%	16V
C201	1-126-965-11	ELECT 22MF 20%	50V
C202	1-126-965-11	ELECT 22MF 20%	50V
C204	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C205	1-126-964-11	ELECT 10MF 20%	50V
C206	1-126-933-11	ELECT 100MF 20%	16V
C207	1-126-933-11	ELECT 100MF 20%	16V
C208	1-126-964-11	ELECT 10MF 20%	50V
C209	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C210	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C211	1-126-965-11	ELECT 22MF 20%	50V
C213	1-163-109-00	CERAMIC CHIP 47PF 5%	50V
C214	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V
C215	1-163-117-00	CERAMIC CHIP 100PF 5%	50V (KV-21C1B)
C216	1-163-109-00	CERAMIC CHIP 47PF 5%	50V
C217	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C218	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C219	1-126-964-11	ELECT 10MF 10%	50V
C220	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C221	1-163-117-00	CERAMIC CHIP 100PF 5%	50V (KV-21C1B)
C223	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
C224	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
C225	1-126-964-11	ELECT 10MF 10%	50V
C226	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C227	1-163-084-00	CERAMIC CHIP 1.5PF 0.25PF	50V
C228	1-163-084-00	CERAMIC CHIP 1.5PF 0.25PF	50V
C229	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C230	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C231	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C232	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V

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REF.NO.	PART NO.	DESCRIPTION		REMARK
C233	1-163-003-11	CERAMIC CHIP 330PF	10%	50V
C234	1-163-003-11	CERAMIC CHIP 330PF	10%	50V
C235	1-126-964-11	ELECT 10MF	20%	50V
C236	1-126-964-11	ELECT 10MF	20%	50V
C240	1-107-823-11	CERAMIC CHIP 0.47MF	10%	16V
C242	1-164-346-11	CERAMIC CHIP 1MF		16V
C243	1-164-346-11	CERAMIC CHIP 1MF		16V
C244	1-164-346-11	CERAMIC CHIP 1MF		16V
C245	1-164-346-11	CERAMIC CHIP 1MF		16V
C246	1-126-965-11	ELECT 22MF	20%	50V
C247	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C300	1-126-942-61	ELECT 1000MF	20%	25V
C301	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C302	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C303	1-126-965-11	ELECT 22MF	20%	50V
C304	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C305	1-124-257-00	ELECT 2.2MF	20%	50V
C306	1-136-164-00	FILM 0.082MF	5%	50V
C307	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V
C308	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C309	1-126-163-11	ELECT 4.7MF	20%	50V
C310	1-163-077-00	CERAMIC CHIP 0.1MF	10%	25V
C312	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C313	1-163-137-00	CERAMIC CHIP 680PF	5%	50V
C314	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C315	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C316	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C317	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C319	1-163-077-00	CERAMIC CHIP 0.1MF		50V
C320	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C321	1-126-963-11	ELECT 4.7MF	20%	50V
C322	1-163-101-00	CERAMIC CHIP 22PF	5%	50V
C323	1-163-099-00	CERAMIC CHIP 18PF	5%	50V
C324	1-163-119-00	CERAMIC CHIP 120PF	5%	50V
C325	1-164-346-91	CERAMIC CHIP 1MF		16V
C326	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C327	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C328	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C329	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V
C330	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C332	1-126-965-11	ELECT 22MF	20%	50V
C333	1-107-715-11	ELECT 22MF	20%	50V
C341	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C345	1-163-125-00	CERAMIC CHIP 220PF	5%	50V
C347	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C348	1-163-031-11	CERAMIC CHIP 0.01MF		50V (KV-21C1B)
C349	1-126-965-11	ELECT 22MF	20%	50V (KV-21C1B)
C353	1-163-125-00	CERAMIC CHIP 220PF	5%	50V
C354	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C359	1-126-965-11	ELECT 22MF	20%	50V
C360	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C401	1-126-967-11	ELECT 47MF	20%	16V
C402	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C403	1-164-346-11	CERAMIC CHIP 1MF		16V
C404	1-164-346-11	CERAMIC CHIP 1MF		16V
C405	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C406	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C410	1-126-967-11	ELECT 47MF	20%	16V

REF.NO.	PART NO.	DESCRIPTION		REMARK
C412	1-163-059-91	CERAMIC CHIP 0.01MF	10%	50V
C413	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C415	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C416	1-126-965-11	ELECT 22MF	20%	50V
C417	1-126-965-11	ELECT 22MF	20%	50V
C418	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C419	1-164-346-11	CERAMIC CHIP 1MF		16V
C420	1-164-346-11	CERAMIC CHIP 1MF		16V
C421	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C422	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C423	1-164-337-11	CERAMIC CHIP 2.2MF		16V
C424	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C425	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C500	1-130-489-00	FILM 0.033MF	5%	50V
C501	1-126-963-11	ELECT 4.7MF	20%	50V
C502	1-163-077-00	CERAMIC CHIP 0.1MF		50V
C503	1-126-952-11	ELECT 1000MF	20%	35V
C504	1-126-968-11	ELECT 100MF	20%	50V
C505	1-126-941-11	ELECT 470MF	20%	25V
C506	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C507	1-126-965-11	ELECT 22MF	20%	50V
C508	1-130-785-11	MYLAR 0.47MF	10%	100V
C510	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C511	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
⚠ C601	1-136-516-12	FILM 0.1MF	20%	300V
⚠ C602	1-136-516-12	FILM 0.1MF	20%	300V
⚠ C603	1-113-890-61	CERAMIC 0.0022MF	20%	250V
⚠ C604	1-113-890-61	CERAMIC 0.0022MF	20%	250V
⚠ C605	1-161-964-91	CERAMIC 0.0047MF		250V
⚠ C606	1-161-964-91	CERAMIC 0.0047MF		250V
C609	1-102-228-00	CERAMIC 470PF	10%	500V
C610	1-104-665-11	ELECT 100MF	20%	25V
C611	1-136-538-11	FILM 0.001MF	3%	2KV
C612	1-107-929-11	ELECT 10MF	20%	100V
C613	1-162-318-11	CERAMIC 0.001MF	10%	500V
C614	1-104-666-11	ELECT 220MF	20%	25V
C615	1-124-347-00	ELECT 100MF	20%	160V
C616	1-162-116-00	CERAMIC 680PF	10%	2KV
C617	1-107-929-11	ELECT 10MF	20%	100V
C618	1-102-228-00	CERAMIC 470PF	10%	500V
C619	1-126-942-61	ELECT 1000MF	20%	25V
C620	1-111-041-11	ELECT 1000MF	20%	16V
C621	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C622	1-126-965-11	ELECT 22MF	20%	50V
C623	1-111-034-11	ELECT 220MF	20%	16V
C624	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C625	1-126-967-11	ELECT 47MF	20%	50V
C626	1-102-228-00	CERAMIC 470PF	10%	500V
C627	1-111-097-11	ELECT 0.0022F	20%	35V
C628	1-126-964-11	ELECT 10MF	20%	50V
C629	1-124-455-00	ELECT 100MF	20%	16V
C630	1-113-473-11	ELECT(BLOCK) 180MF	20%	400V
C632	1-106-220-00	MYLAR 0.1MF	10%	100V
C633	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V
C634	1-104-665-11	ELECT 100MF	20%	25V
C635	1-111-097-11	ELECT 0.0022F	20%	35V
C636	1-102-228-00	CERAMIC 470PF	10%	500V
C638	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C639	1-102-228-00	CERAMIC 470PF	10%	500V
C640	1-102-110-00	CERAMIC 220PF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C641	1-106-220-00	MYLAR 0.1MF 10% 100V	
C645	1-104-665-11	ELECT 100MF 20% 25V	
C800	1-107-650-11	ELECT 3.3MF 20% 250V	
C801	1-129-746-00	FILM 0.039MF 10% 400V	
C802	1-136-079-00	FILM 0.01MF 3% 2KV	
C803	1-136-109-00	FILM 0.68MF 5% 200V	
C804	1-124-902-00	ELECT 0.47MF 20% 50V	
C805	1-102-228-00	CERAMIC 470PF 10% 500V	
C806	1-102-244-00	CERAMIC 220PF 10% 500V	
C807	1-107-651-11	ELECT 4.7MF 20% 250V	
C809	1-161-754-00	CERAMIC 0.001MF 10% 2KV	
C810	1-129-702-00	FILM 0.001MF 10% 400V	
C812	1-163-121-00	CERAMIC CHIP 150PF 5% 50V	
C813	1-162-115-00	CERAMIC 330PF 10% 2KV	
C814	1-136-159-00	FILM 0.033MF 5% 50V	
C815	1-162-116-00	CERAMIC 680PF 10% 2KV	
C817	1-136-559-11	MYLAR 0.0047MF 10% 400V	
C818	1-136-933-11	FILM 1MF 5% 100V	
C819	1-162-318-11	CERAMIC 0.001MF 10% 500V	
C820	1-126-951-11	ELECT 470MF 20% 35V	
C822	1-104-696-11	FILM 0.015MF 10% 100V	
C823	1-106-375-12	MYLAR 0.022MF 10% 250V	
C824	1-106-367-00	MYLAR 0.01MF 10% 400V	
C825	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C826	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C827	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
C828	1-124-903-11	ELECT 1MF 20% 50V	
C1001	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C1002	1-126-395-11	ELECT 22MF 20% 16V	
C1003	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C1004	1-126-395-11	ELECT 22MF 20% 16V	
C1005	1-164-492-11	CERAMIC CHIP 0.15MF 10% 16V	
C1006	1-163-078-11	CERAMIC CHIP 0.033MF 10% 25V	
C1007	1-163-078-11	CERAMIC CHIP 0.033MF 10% 25V	
C1008	1-163-109-00	CERAMIC CHIP 47PF 5% 50V	
C1009	1-163-113-00	CERAMIC CHIP 68PF 5% 50V	
C1010	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C1011	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1012	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C1013	1-126-206-11	ELECT 100MF 20% 6.3V	
C1014	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C1015	1-164-505-11	CERAMIC CHIP 2.2MF 16V	
C1016	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C1200	1-136-165-00	FILM 0.1MF 5% 50V	
C1201	1-136-173-00	FILM 0.47MF 5% 50V	
C1202	1-136-173-00	FILM 0.47MF 5% 50V	
C1203	1-136-169-00	FILM 0.22MF 5% 50V	
C1204	1-136-169-00	FILM 0.22MF 5% 50V	
C1205	1-101-004-00	CERAMIC 0.01MF 50V	
C1206	1-101-004-00	CERAMIC 0.01MF 50V	
C1215	1-136-173-00	FILM 0.47MF 5% 50V	
C1216	1-137-366-11	FILM 0.0022MF 5% 50V	
C1217	1-137-366-11	FILM 0.0022MF 5% 50V	
		< FILTER >	
CF200	1-409-327-00	TRAP, CERAMIC (6.5MHZ) (KV-21C1B)	
CF1001	1-767-120-21	VIBRATOR, CERAMIC (18MHz)	
		< CONNECTOR >	
CN001	*1-564-508-11	PLUG, CONNECTOR 5P	
CN081	*1-568-881-51	PIN, CONNECTOR 6P	
CN082	*1-568-880-51	PIN, CONNECTOR 5P	
CN201	*1-568-879-11	PIN, CONNECTOR 4P	
CN402	*1-564-512-11	PLUG, CONNECTOR 9P	
CN403	*1-568-878-51	PIN, CONNECTOR 3P	
CN404	*1-568-879-11	PIN, CONNECTOR 4P	
CN601	! *1-695-292-11	PIN, CONNECTOR (POWER)	
CN603	! 1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN801	*1-580-798-11	CONNECTOR PIN (DY) 6P	
		< DIODE >	
D002	8-719-982-27	DIODE MTZJ-33C	
D003	8-719-991-33	DIODE 1SS133T-77	
D004	8-719-991-33	DIODE 1SS133T-77	
D005	8-719-914-43	DIODE DAN202K	
D006	8-719-914-43	DIODE DAN202K	
D007	8-719-914-43	DIODE DAN202K	
D009	8-719-976-99	DIODE DTZ5.1B	
D011	8-719-976-99	DIODE DTZ5.1B	
D012	8-719-991-33	DIODE 1SS133T-77	
D301	8-719-991-33	DIODE 1SS133T-77	
D302	8-719-991-33	DIODE 1SS133T-77	
D306	8-719-976-99	DIODE DTZ5.1B	
D307	8-719-991-33	DIODE 1SS133T-77 (KV-21C1B)	
D308	8-719-991-33	DIODE 1SS133T-77 (KV-21C1B)	
D401	8-719-109-97	DIODE RD6.8ES-B2	
D402	8-719-109-97	DIODE RD6.8ES-B2	
D403	8-719-109-97	DIODE RD6.8ES-B2	
D404	8-719-109-97	DIODE RD6.8ES-B2	
D405	8-719-109-97	DIODE RD6.8ES-B2	
D406	8-719-109-97	DIODE RD6.8ES-B2	
D407	8-719-109-97	DIODE RD6.8ES-B2	
D408	8-719-110-14	DIODE RD9.1ES-B3	
D409	8-719-110-14	DIODE RD9.1ES-B3	
D410	8-719-110-14	DIODE RD9.1ES-B3	
D411	8-719-991-33	DIODE 1SS133T-77	
D412	8-719-109-97	DIODE RD6.8ES-B2	
D413	8-719-991-33	DIODE 1SS133T-77	
D415	8-719-110-14	DIODE RD9.1ES-B3	
D416	8-719-977-22	DIODE DTZ9.1	
D417	8-719-977-22	DIODE DTZ9.1	
D501	8-719-302-43	DIODE EL1Z	
D602	8-719-991-33	DIODE 1SS133T-77	
D603	8-719-109-97	DIODE RD6.8ES-B2	
D604	8-719-302-43	DIODE EL1Z	
D605	8-719-302-43	DIODE EL1Z	
D606	8-719-980-78	DIODE ERA83-006	
D607	8-719-046-78	DIODE EG-1Z-V1	
D608	8-719-302-43	DIODE EL1Z	
D609	8-719-312-10	DIODE RU4AM-T3	
D610	8-719-025-88	DIODE GBU4JL-6088	
D611	8-719-980-78	DIODE ERA83-006	
D612	8-719-046-76	DIODE RU-3YX-V1	
D613	8-719-058-38	DIODE FMN-G12S	
D614	8-719-109-89	DIODE RD5.6ESB2	
D615	8-719-302-43	DIODE EL1Z	
D616	8-719-110-03	DIODE RD7.5ESB2	
D617	8-719-991-33	DIODE 1SS133T-77	
D619	8-719-980-78	DIODE ERA83-006	
D620	8-719-110-14	DIODE RD9.1ES-B3	
D621	8-719-058-38	DIODE FMN-G12S	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D622	8-719-991-33	DIODE 1SS133T-77	
D623	8-719-110-60	DIODE RD24ESB	
D625	8-719-991-33	DIODE 1SS133T-77	
D626	8-719-302-43	DIODE EL1Z	
D627	8-719-991-33	DIODE 1SS133T-77	
D801	8-719-950-57	DIODE BYD33G	
D802	8-719-302-43	DIODE EL1Z	
D803	8-719-945-80	DIODE ERC06-15S	
D805	8-719-928-08	DIODE ERD28-08S	
D806	8-719-302-43	DIODE EL1Z	
D807	8-719-991-33	DIODE 1SS133T-77	
D809	8-719-302-43	DIODE EL1Z	
D1200	8-719-109-72	DIODE RD3.9ES-B2	
		< FERRITE BEAD >	
FB600	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB602	1-412-911-11	INDUCTOR, FERRITE BEAD 1.1UH	
FB603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB605	1-412-911-11	INDUCTOR, FERRITE BEAD 1.1UH	
FB606	1-412-911-11	INDUCTOR, FERRITE BEAD 1.1UH	
FB607	1-412-911-11	INDUCTOR, FERRITE BEAD 1.1UH	
FB1001	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB1002	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB1003	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
		< ENCAPSULATED FILTER >	
FL201	1-239-803-11	FILTER, EMI	
		< IC >	
IC004	8-759-250-69	IC TEA2124	
IC005	8-759-510-54	IC PST572D	
IC200	8-759-429-98	IC MSP3410B-PP-F7(KV-21C1B/21C1E)	
	8-759-429-97	IC MSP3400C-PP-C6(KV-21C1D/21C1K/21C1R)	
IC201	8-759-502-21	IC TDA2822M	
IC301	8-759-333-45	IC MC44002P	
IC302	8-759-333-46	IC MC44140P	
IC401	8-759-064-91	IC NJM2233BL	
IC501	8-759-192-71	IC STV9379	
	4-202-373-01	SPRING, IC ; IC501	
IC600	8-749-924-99	IC STR-S6707	
	4-202-373-01	SPRING, IC ; IC600	
! IC601	8-749-010-64	PHOTO COUPLER PC123F2	
IC602	8-749-920-61	IC SE-135N	
IC603	8-759-507-29	IC LM7808CT	
IC604	8-759-250-63	IC TL750L05CLPR	
IC605	8-759-510-52	IC L4941BV	
	4-202-373-01	SPRING, IC ; IC605	
IC1002	8-759-440-72	IC SDA5250M-C9-GEG (KV-21C1B/21C1D/21C1E/21C1K)	
	8-759-440-73	IC SDA5250M-C10-GEG (KV-21C1R)	
IC1003	8-759-432-32	IC ST24W04FM6TR	
IC1004	8-759-440-74	IC M27C512-90C1-BE5-1	
IC1200	8-759-250-68	IC TDA7264	
	4-202-373-01	SPRING, IC ; IC1200	
	4-202-710-11	SPACER, INSULATING ; IC1200	
		< SOCKET >	
J401	1-695-551-11	SOCKET 21P	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		< COIL >	
L108	1-412-522-41	INDUCTOR 5.6UH	
L111	1-408-408-00	INDUCTOR 8.2UH	
L112	1-408-397-00	INDUCTOR 1UH	
L113	1-408-408-00	INDUCTOR 8.2UH	
L200	1-408-406-00	INDUCTOR 5.6UH (KV-21C1B)	
L203	1-410-385-11	INDUCTOR CHIP 22UH	
L204	1-410-385-11	INDUCTOR CHIP 22UH	
L301	1-410-989-11	INDUCTOR CHIP 0.47UH	
L405	1-408-409-00	INDUCTOR 10UH	
L406	1-408-409-00	INDUCTOR 10UH	
L407	1-408-409-00	INDUCTOR 10UH	
L408	1-408-409-00	INDUCTOR 10UH	
L409	1-408-409-00	INDUCTOR 10UH	
L410	1-408-409-00	INDUCTOR 10UH	
L411	1-408-409-00	INDUCTOR 10UH	
L609	1-412-533-21	INDUCTOR 47UH	
L611	1-412-533-21	INDUCTOR 47UH	
L612	1-412-522-41	INDUCTOR 5.6UH	
L613	1-412-522-41	INDUCTOR 5.6UH	
L800	1-412-553-11	INDUCTOR 3.3MMH	
L801	1-420-872-00	COIL, AIR-CORE	
L802	1-411-635-11	COIL, AIR-CORE	
L803	1-459-390-00	COIL (WITH CORE)	
L804	1-459-105-21	COIL(WITH CORE)	
L805	1-412-531-31	INDUCTOR 33UH	
L806	1-459-652-12	HLC	
L1001	1-408-405-00	INDUCTOR 4.7UH	
		< IC LINK >	
! PS600	1-532-686-21	LINK, IC 2.7A (ICP-F75)	
! PS601	1-532-686-21	LINK, IC 2.7A (ICP-F75)	
! PS602	1-532-686-21	LINK, IC 2.7A (ICP-F75)	
! PS603	1-532-686-21	LINK, IC 2.7A (ICP-F75)	
		< TRANSISTOR >	
Q002	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q006	8-729-216-22	TRANSISTOR 2SA1162-G	
Q007	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q008	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q009	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q011	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q107	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q110	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q118	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q200	8-729-900-53	TRANSISTOR DTC114EK	
Q201	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q202	8-729-027-56	TRANSISTOR DTC143TKA-T146	
Q204	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q205	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q207	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-21C1B)	
Q208	8-729-216-22	TRANSISTOR 2SA1162-G (KV-21C1B)	
Q209	8-729-920-74	TRANSISTOR 2SC2412K-QR (KV-21C1B)	
Q210	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q300	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q301	8-729-900-53	TRANSISTOR DTC114EK	
Q302	8-729-900-53	TRANSISTOR DTC114EK	
Q303	8-729-900-53	TRANSISTOR DTC114EK	
Q304	8-729-900-53	TRANSISTOR DTC114EK	
Q305	8-729-900-53	TRANSISTOR DTC114EK	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
Q306	8-729-900-53	TRANSISTOR DTC114EK	
Q307	8-729-026-41	TRANSISTOR 2SA933AS-QRT (KV-21C1B)	
Q310	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q311	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q312	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q405	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q406	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q407	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q408	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q500	8-729-017-06	TRANSISTOR 2SC4793	
Q501	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q601	8-729-025-04	TRANSISTOR 2SC3852A	
Q602	8-729-320-28	TRANSISTOR 2SA1667	
Q603	8-729-027-08	TRANSISTOR 2SC2389STP-R	
Q604	8-729-024-35	TRANSISTOR 2SC2808STP-R	
Q606	8-729-029-56	TRANSISTOR DTA144ESA	
Q608	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q617	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q801	8-729-140-50	TRANSISTOR 2SC3209LK	
Q802	8-729-033-85	TRANSISTOR S2000N-16E305A	
Q803	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q804	8-729-019-01	TRANSISTOR 2SD2394-EF	
	*4-368-683-11	SPRING, TRANSISTOR ; Q804	
Q805	8-729-140-96	TRANSISTOR 2SD774-34	
Q1200	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q1201	8-729-920-74	TRANSISTOR 2SC2412K-QR	

< RESISTOR >

D618	1-249-426-11	CARBON	5.6K	5%	1/4W	
Q012	1-216-295-00	METAL GLAZE	0	5%	1/10W	
Q013	1-216-295-00	METAL GLAZE	0	5%	1/10W	
Q014	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR17	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR43	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR45	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR47	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR51	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR52	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR55	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR56	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR59	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR60	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR61	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR62	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR66	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR69	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR003	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR004	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR006	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR007	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR008	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR009	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR010	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR011	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR013	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR015	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR016	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR018	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR019	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR020	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR021	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR022	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR023	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR024	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR025	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR026	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR028	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR030	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR033	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR034	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR036	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR039	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR046	1-216-174-00	METAL GLAZE	100	5%	1/8W	
JR071	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR072	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR073	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR1001	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R001	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R005	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R007	1-216-238-91	METAL GLAZE	47K	5%	1/8W	
R012	1-249-437-11	CARBON	47K	5%	1/4W	
R019	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R020	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R021	1-216-258-00	METAL GLAZE	330K	5%	1/8W	
R022	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R023	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R025	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R026	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R027	1-216-069-00	METAL GLAZE	6.8k	5%	1/10W	
R028	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R029	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R030	1-215-900-11	METAL OXIDE	22K	5%	2W	F
R031	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R032	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R034	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R036	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R037	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R038	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R040	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R041	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R042	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R043	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R044	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R045	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R046	1-216-254-00	METAL GLAZE	220K	5%	1/8W	
R047	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R049	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R050	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R051	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R052	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R053	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
R064	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R065	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R066	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R067	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R068	1-216-073-00	METAL GLAZE	10K	5%	1/10W	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R069	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R070	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R078	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R088	1-216-017-91	METAL GLAZE	47	5%	1/10W
R089	1-216-035-00	METAL GLAZE	270	5%	1/10W
R090	1-216-037-91	METAL GLAZE	330	5%	1/10W
R097	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R098	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W
R099	1-216-200-11	METAL GLAZE	1.2K	5%	1/8W
R110	1-216-174-00	METAL GLAZE	100	5%	1/8W
R111	1-216-174-00	METAL GLAZE	100	5%	1/8W
R112	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R113	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R114	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R115	1-216-190-00	METAL GLAZE	470	5%	1/8W
R116	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R117	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R118	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R119	1-216-031-00	METAL GLAZE	180	5%	1/10W
R120	1-216-041-00	METAL GLAZE	470	5%	1/10W
R124	1-216-025-00	METAL GLAZE	100	5%	1/10W
R125	1-216-025-00	METAL GLAZE	100	5%	1/10W
R126	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R134	1-216-037-00	METAL GLAZE	330	5%	1/10W
R163	1-216-029-00	METAL GLAZE	150	5%	1/10W
R174	1-216-033-91	METAL GLAZE	220	5%	1/10W
R200	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R201	1-249-389-11	CARBON	4.7	5%	1/4W F
R202	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R203	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R204	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R205	1-216-295-00	METAL GLAZE	0	5%	1/10W
R207	1-249-389-11	CARBON	4.7	5%	1/4W F
R209	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R210	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R211	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R213	1-216-174-00	METAL GLAZE	100	5%	1/8W
R214	1-216-174-00	METAL GLAZE	100	5%	1/8W
R215	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R218	1-216-037-00	METAL GLAZE	330	5%	1/10W (KV-21C1B)
R219	1-216-049-00	METAL GLAZE	1K	5%	1/10W (KV-21C1B)
R220	1-216-045-00	METAL GLAZE	680	5%	1/10W (KV-21C1B)
R221	1-216-033-00	METAL GLAZE	220	5%	1/10W (KV-21C1B)
R222	1-216-001-00	METAL GLAZE	10	5%	1/10W (KV-21C1B)
R223	1-216-041-00	METAL GLAZE	470	5%	1/10W (KV-21C1B)
R224	1-216-025-00	METAL GLAZE	100	5%	1/10W (KV-21C1B)
R225	1-216-037-00	METAL GLAZE	330	5%	1/10W
R226	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R227	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R228	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W (KV-21C1B)
R229	1-216-073-00	METAL GLAZE	10K	5%	1/10W (KV-21C1B)
R230	1-216-025-00	METAL GLAZE	100	5%	1/10W (KV-21C1B)
R231	1-216-035-00	METAL GLAZE	270	5%	1/10W (KV-21C1B)
R236	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R237	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R238	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R239	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R240	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R301	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R302	1-216-037-00	METAL GLAZE	330	5%	1/10W
R303	1-216-090-00	METAL GLAZE	51K	5%	1/10W
R304	1-216-025-00	METAL GLAZE	100	5%	1/10W
R305	1-216-025-00	METAL GLAZE	100	5%	1/10W
R306	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R307	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R308	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R309	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R310	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R311	1-216-025-00	METAL GLAZE	100	5%	1/10W
R312	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R313	1-216-045-00	METAL GLAZE	680	5%	1/10W
R314	1-216-045-00	METAL GLAZE	680	5%	1/10W
R315	1-216-045-00	METAL GLAZE	680	5%	1/10W
R316	1-216-033-00	METAL GLAZE	220	5%	1/10W
R317	1-216-033-00	METAL GLAZE	220	5%	1/10W
R318	1-216-019-00	METAL GLAZE	56	5%	1/10W
R322	1-216-022-00	METAL GLAZE	75	5%	1/10W
R323	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R325	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R326	1-216-041-00	METAL GLAZE	470	5%	1/10W
R327	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R328	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R332	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R333	1-216-037-00	METAL GLAZE	330	5%	1/10W
R334	1-216-033-00	METAL GLAZE	220	5%	1/10W
R335	1-216-295-00	METAL GLAZE	0	5%	1/10W
R336	1-216-295-00	METAL GLAZE	0	5%	1/10W
R337	1-216-295-00	METAL GLAZE	0	5%	1/10W
R339	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R340	1-216-238-91	METAL GLAZE	47K	5%	1/8W
R341	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R342	1-216-186-00	METAL GLAZE	330	5%	1/8W
R343	1-216-295-00	METAL GLAZE	0	5%	1/10W
R344	1-216-295-00	METAL GLAZE	0	5%	1/10W
R345	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R347	1-216-041-00	METAL GLAZE	470	5%	1/10W (KV-21C1B)
R348	1-216-073-00	METAL GLAZE	10K	5%	1/10W (KV-21C1B)
R349	1-216-105-91	METAL GLAZE	220K	5%	1/10W (KV-21C1B)
R350	1-216-033-00	METAL GLAZE	220	5%	1/10W (KV-21C1B)
R351	1-216-292-11	METAL GLAZE	8.2M	5%	1/8W
R354	1-216-033-00	METAL GLAZE	220	5%	1/10W
R355	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R359	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R360	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R361	1-216-022-00	METAL GLAZE	75	5%	1/10W

A and M

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R362	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R363	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R364	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R365	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R366	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R367	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R368	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R369	1-216-238-91	METAL GLAZE	47K	5%	1/8W	
R401	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R402	1-247-807-31	CARBON	100	5%	1/4W	
R403	1-247-807-31	CARBON	100	5%	1/4W	
R404	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R405	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R406	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R407	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R408	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R409	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R410	1-216-171-00	METAL GLAZE	75	5%	1/8W	
R411	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R412	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R413	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R414	1-260-311-11	CARBON	39	5%	1/2W	
R415	1-260-311-11	CARBON	39	5%	1/2W	
R416	1-216-022-00	METAL GLAZE	75	5%	1/10W	
R417	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R418	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R419	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R420	1-247-807-31	CARBON	100	5%	1/4W	
R421	1-247-807-31	CARBON	100	5%	1/4W	
R422	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R423	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R424	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R425	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R426	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R427	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R428	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R429	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R430	1-216-009-00	METAL GLAZE	22	5%	1/10W	
R501	1-208-806-11	METAL CHIP	10K	0.50%	1/10W	
R502	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R503	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W	
R504	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R505	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R506	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R507	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R508	1-215-865-11	METAL OXIDE	220	5%	1W	F
R509	1-249-383-11	CARBON	1.5	5%	1/4W	F
R513	1-249-429-11	CARBON	10K	5%	1/4W	
R514	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R515	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R516	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R601 !	1-202-962-11	WIREWOUND	3.3	5%	10W	
R602	1-249-417-11	CARBON	1K	5%	1/4W	
R603	1-215-898-11	METAL OXIDE	10K	5%	2W	F
R604	1-215-902-11	METAL OXIDE	47K	5%	2W	F
R605	1-216-365-11	METAL OXIDE	0.47	5%	2W	F
R607	1-215-858-00	METAL OXIDE	15	5%	1W	F
R608	1-216-365-00	METAL OXIDE	0.47	5%	2W	F
R609	1-249-420-11	CARBON	1.8K	5%	1/4W	
R610	1-249-415-11	CARBON	680	5%	1/4W	
R611	1-216-354-11	METAL OXIDE	2.7	5%	1W	F
R612 !	1-260-135-11	CARBON	1M	5%	1/2W	
R613	1-249-417-11	CARBON	1K	5%	1/4W	
R614 !	1-218-265-11	METAL	8.2M	5%	1W	
R615	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R616	1-215-479-00	METAL	270K	1%	1/4W	
R617	1-215-877-11	METAL OXIDE	22K	5%	1W	F
R618	1-247-863-91	CARBON	22K	5%	1/4W	
R619	1-249-424-11	CARBON	3.9K	5%	1/4W	
R620	1-247-895-91	CARBON	470K	5%	1/4W	
R621	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R622	1-249-437-11	CARBON	47K	5%	1/4W	
R623	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R625	1-249-426-11	CARBON	5.6K	5%	1/4W	
R628	1-247-831-91	METAL GLAZE	1K	5%	1/10W	
R632	1-247-807-31	CARBON	100	5%	1/4W	
R634	1-249-397-11	CARBON	22	5%	1/4W	F
R635	1-249-437-11	CARBON	47K	5%	1/4W	
R636	1-249-417-11	CARBON	1K	5%	1/4W	
R637	1-247-815-91	CARBON	220	5%	1/4W	
R638	1-247-863-91	CARBON	22K	5%	1/4W	
R645	1-249-422-11	CARBON	2.7K	5%	1/4W	
R646	1-249-382-11	CARBON	1.2	5%	1/4W	F
R647	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R648	1-249-407-11	CARBON	150	5%	1/4W	
R651	1-215-902-11	METAL OXIDE	47K	5%	2W	F
R800	1-215-887-00	METAL OXIDE	150	5%	2W	F
R801	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R802	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R803	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R804	1-215-917-11	METAL OXIDE	1K	5%	3W	F
R805	1-215-897-11	METAL OXIDE	6.8K	5%	2W	F
R806	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R807	1-249-399-11	CARBON	33	5%	1/4W	
R808	1-202-813-00	SOLID	22K	5%	1/2W	
R809	1-215-886-11	METAL OXIDE	100	5%	2W	F
R810	1-247-895-91	CARBON	470K	5%	1/4W	
R811	1-215-868-00	METAL GLAZE	680	5%	1W	F
R813	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R814	1-217-811-11	FUSIBLE	0.47	5%	1/4W	
R815	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R816	1-216-366-00	METAL OXIDE	0.56	5%	2W	F
R817	1-216-447-00	METAL OXIDE	27	5%	2W	F
R818	1-202-813-00	SOLID	22K	5%	1/2W	
R819	1-249-441-11	CARBON	100K	5%	1/4W	
R820	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R821	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R822	1-216-103-00	METAL GLAZE	180K	5%	1/10W	
R823	1-249-413-11	CARBON	470	5%	1/4W	
R824	1-216-125-00	METAL GLAZE	1.5M	5%	1/10W	
R825	1-216-107-00	METAL GLAZE	270	5%	1/10W	
R826	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R828	1-216-115-00	METAL GLAZE	560K	5%	1/10W	
R830	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R841	1-217-377-00	FUSIBLE	0.47	5%	1/4W	F
R1001	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1002	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R1003	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R1004	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R1005	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	

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A and M | M

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1006	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R1009	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1010	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1011	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1012	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1013	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1014	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1015	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1016	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1017	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1019	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1020	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1021	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1022	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1023	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1024	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1025	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1026	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1027	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1028	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1029	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1030	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1031	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1032	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1033	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1034	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1035	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1036	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1037	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1038	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1039	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1040	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1041	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1042	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1043	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1200	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R1201	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1202	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1203	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R1208	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R1209	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R1211	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1212	1-249-424-11	CARBON	3.9K	5%	1/4W	
		< RELAY >				
RY600	⚠ 1-755-018-11	RELAY				
		< TRANSFORMER >				
T601	⚠ 1-427-962-21	TRANSFORMER, LINE FILTER				
T602	⚠ 1-429-840-11	TRANSFORMER, CONVERTER				
T801	1-437-090-31	HDT				
T802	⚠ 1-453-199-11	TRANSFORMER ASSY, FLYBACK (NX-17/11/U2A)				
		< THERMISTOR >				
THP601	⚠ 1-809-827-11	THERMISTOR, POSITIVE				
		< TUNER >				
TU101	1-693-340-11	TUNER/VIF (FR) (KV-21C1B)				
	1-693-338-11	TUNER/VIF (AEP) (KV-21C1D/21C1E/21C1K/21C1R)				

REF.NO.	PART NO.	DESCRIPTION				REMARK
		< CRYSTAL >				
X201	1-760-628-11	VIBRATOR, CRYSTAL (18.432MHz)				
X301	1-760-907-21	VIBRATOR, CRYSTAL (14.318MHz)				
X302	1-760-710-21	VIBRATOR, CRYSTAL (17.472MHz)				
		**********				
	*A-1634-042-A	M BOARD, COMPLETE (KV-21C1B/21C1D/ ********** 21C1E/21C1K)				
	*A-1634-043-A	M BOARD, COMPLETE (KV-21C1R) **********				
	1-750-797-11	SOCKET, PLCC				
		< CAPACITOR >				
C1001	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C1002	1-126-395-11	ELECT	22MF	20%	16V	
C1003	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C1004	1-126-395-11	ELECT	22MF	20%	16V	
C1005	1-164-492-11	CERAMIC CHIP	0.15MF	10%	16V	
C1006	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V	
C1007	1-163-078-11	CERAMIC CHIP	0.033MF	10%	25V	
C1008	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C1009	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C1010	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1011	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1012	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C1013	1-126-206-11	ELECT	100MF	20%	6.3V	
C1014	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C1015	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C1016	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1200	1-136-165-00	FILM	0.1MF	5%	50V	
C1201	1-136-173-00	FILM	0.47MF	5%	50V	
C1202	1-136-173-00	FILM	0.47MF	5%	50V	
C1203	1-136-169-00	FILM	0.22MF	5%	50V	
C1204	1-136-169-00	FILM	0.22MF	5%	50V	
C1205	1-101-004-00	CERAMIC	0.01MF		50V	
C1206	1-101-004-00	CERAMIC	0.01MF		50V	
C1215	1-136-173-00	FILM	0.47MF	5%	50V	
C1216	1-137-366-11	FILM	0.0022MF	5%	50V	
C1217	1-137-366-11	FILM	0.0022MF	5%	50V	
		< FILTER >				
CF1001	1-767-120-21	VIBRATOR, CERAMIC (8MHz)				
		< FERRITE BEAD >				
FB1001	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH				
FB1002	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH				
FB1003	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH				
		< IC >				
IC1002	8-759-440-72	IC SDA5250M-C9-GEG				
IC1003	8-759-432-32	IC ST24W04FM6TR				
IC1004	8-759-440-74	IC M27C512-90C1-BE5-1				
		< COIL >				
L1001	1-408-405-00	INDUCTOR	4.7UH			
		< RESISTOR >				
JR1001	1-216-295-00	METAL GLAZE	0	5%	1/10W	

M C

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R1001	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1002	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R1003	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R1004	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R1005	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R1006	1-216-129-00	METAL GLAZE	2.2M	5%	1/10W	
R1009	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1010	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1011	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1012	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1013	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1014	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1015	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1016	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1017	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1019	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1020	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1021	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1022	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1023	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1024	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1025	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1026	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1027	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1028	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1029	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1030	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1031	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1032	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1033	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1034	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1035	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1036	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1037	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1038	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1039	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1040	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1041	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1042	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1043	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	

****

*A-1638-102-A C BOARD, COMPLETE
****

< CAPACITOR >

C701	1-102-117-00	CERAMIC	820PF	10%	50V
C702	1-102-117-00	CERAMIC	820PF	10%	50V
C703	1-102-117-00	CERAMIC	820PF	10%	50V
C704	1-102-824-00	CERAMIC	470PF	5%	50V
C705	1-102-824-00	CERAMIC	470PF	5%	50V
C706	1-102-824-00	CERAMIC	470PF	5%	50V
C707	1-107-651-11	ELECT	4.7MF	20%	250V
C709	1-162-114-00	CERAMIC	0.0047MF		2KV
C710	1-126-967-11	ELECT	47MF	20%	16V
C711	1-101-880-00	CERAMIC	47PF	5%	50V
C712	1-102-820-00	CERAMIC	330PF	5%	50V
C713	1-101-880-00	CERAMIC	47PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION				REMARK
		< CONNECTOR >				
CNC71	*1-568-881-51	PIN, CONNECTOR 6P				
CNC72	*1-568-880-51	PIN, CONNECTOR 5P				
CNC73	1-695-915-11	TAB (CONTACT)				
CNC76	1-695-915-11	TAB (CONTACT)				
		< DIODE >				
D701	8-719-991-33	DIODE 1SS133T-77				
D702	8-719-991-33	DIODE 1SS133T-77				
D703	8-719-991-33	DIODE 1SS133T-77				
D704	8-719-991-33	DIODE 1SS133T-77				
D705	8-719-991-33	DIODE 1SS133T-77				
D706	8-719-991-33	DIODE 1SS133T-77				
D707	8-719-991-33	DIODE 1SS133T-77				
D708	8-719-991-33	DIODE 1SS133T-77				
D709	8-719-991-33	DIODE 1SS133T-77				
D716	8-719-991-33	DIODE 1SS133T-77				
D717	8-719-054-81	DIODE 1SS292T-77				
D718	8-719-991-33	DIODE 1SS133T-77				
D719	8-719-054-81	DIODE 1SS292T-77				
D723	8-719-991-33	DIODE 1SS133T-77				
D724	8-719-054-81	DIODE 1SS292T-77				
		< CRT SOCKET >				
J701	1-526-990-22	SOCKET, CRT				
		< COIL >				
L702	1-408-425-00	INDUCTOR	220UH			
		< TRANSISTOR >				
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q704	8-729-906-70	TRANSISTOR BF871-127				
Q705	8-729-906-70	TRANSISTOR BF871-127				
Q706	8-729-906-70	TRANSISTOR BF871-127				
Q707	8-729-200-17	TRANSISTOR 2SA1091-O				
Q708	8-729-200-17	TRANSISTOR 2SA1091-O				
Q709	8-729-200-17	TRANSISTOR 2SA1091-O				
		< RESISTOR >				
R700	1-202-549-00	SOLID	100	10%	1/4W	
R701	1-249-417-11	CARBON	1K	5%	1/4W	
R702	1-249-417-11	CARBON	1K	5%	1/4W	
R706	1-249-399-11	CARBON	33	5%	1/4W	
R707	1-202-519-00	CARBON	47	20%	1/2W	
R708	1-247-815-91	CARBON	220	5%	1/4W	
R709	1-247-815-91	CARBON	220	5%	1/4W	
R710	1-247-815-91	CARBON	220	5%	1/4W	
R711	1-249-417-11	CARBON	1K	5%	1/4W	
R714	1-249-417-11	CARBON	1K	5%	1/4W	
R715	1-249-417-11	CARBON	1K	5%	1/4W	
R716	1-249-417-11	CARBON	1K	5%	1/4W	
R717	1-260-105-11	CARBON	3.3K	5%	1/2W	
R718	1-260-105-11	CARBON	3.3K	5%	1/2W	
R719	1-260-105-11	CARBON	3.3K	5%	1/2W	
R720	1-215-923-00	METAL OXIDE	10K	5%	3W	F
R721	1-215-923-00	METAL OXIDE	10K	5%	3W	F
R722	1-215-923-00	METAL OXIDE	10K	5%	3W	F
R724	1-202-814-11	SOLID	33K	10%	1/2W	

C H1 H2 H3

REF.NO.	PART NO.	DESCRIPTION				REMARK
R725	1-202-846-00	SOLID	470K	10%	1/2W	
R729	1-216-355-11	METAL OXIDE	3.3	5%	1W	F
R730	1-249-410-11	CARBON	270	5%	1/4W	
R731	1-247-815-91	CARBON	220	5%	1/4W	
R732	1-249-410-11	CARBON	270	5%	1/4W	
R734	1-247-815-91	CARBON	220	5%	1/4W	
R735	1-247-815-91	CARBON	220	5%	1/4W	
R736	1-247-815-91	CARBON	220	5%	1/4W	
R744	1-260-103-11	CARBON	2.2K	5%	1/2W	
R745	1-260-103-11	CARBON	2.2K	5%	1/2W	
R746	1-260-103-11	CARBON	2.2K	5%	1/2W	
		< VARIABLE RESISTOR >				
RV702	1-241-656-21	RES, ADJ, METAL FILM 110M				
**********						
	*A-1646-130-A	H1 BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C900	1-102-114-00	CERAMIC	470PF	5%	500V	
C901	1-102-114-00	CERAMIC	470PF	5%	500V	
C902	1-137-372-11	FILM	0.022MF	5%	50V	
C903	1-137-372-11	FILM	0.022MF	5%	50V	
		< CONNECTOR >				
CN906	*1-564-512-11	PLUG, CONNECTOR 9P				
		< JACK >				
J900	1-764-606-11	JACK				
J902	1-568-678-11	TERMINAL BLOCK, S 3P				
		< COIL >				
L900	1-408-409-00	INDUCTOR	10UH			
L901	1-408-409-00	INDUCTOR	10UH			
L902	1-408-409-00	INDUCTOR	10UH			
L903	1-408-409-00	INDUCTOR	10UH			
L904	1-408-409-00	INDUCTOR	10UH			
		< RESISTOR >				
R909	1-249-437-11	CARBON	47K	5%	1/4W	
R910	1-249-437-11	CARBON	47K	5%	1/4W	
**********						
	*A-1646-131-A	H2 BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C904	1-104-665-11	ELECT	100MF	20%	25V	
C905	1-126-964-11	ELECT	10MF	20%	50V	
		< CONNECTOR >				
CN907	*1-568-879-11	PIN, CONNECTOR 4P				
		< DIODE >				
D901	8-719-302-45	DIODE SEL1210S-CD				
	*4-203-258-01	HOLDER, LED ; D901				

REF.NO.	PART NO.	DESCRIPTION				REMARK
		< IC >				
IC900	8-742-014-00	RECEIVER HIC SBX1981-51				
		< RESISTOR >				
R900	1-249-417-11	CARBON	1K	5%	1/4W	
R908	1-249-401-11	CARBON	47	5%	1/4W	
**********						
	*A-1646-132-A	H3 BOARD, COMPLETE				
		**********				
		< CONNECTOR >				
CN908	*1-568-878-51	PIN, CONNECTOR 3P				
		< RESISTOR >				
R911	1-247-843-11	CARBON	3.3K	5%	1/4W	
R912	1-249-429-11	CARBON	10K	5%	1/4W	
R913	1-247-843-11	CARBON	3.3K	5%	1/4W	
R914	1-249-429-11	CARBON	10K	5%	1/4W	
		< SWITCH >				
S900	1-692-979-11	SWITCH, TACTILE				
S901	1-692-979-11	SWITCH, TACTILE				
S902	1-692-979-11	SWITCH, TACTILE				
**********						

The components identified by shading and marked ! are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ! sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
		*************	
!	1-411-922-11	COIL, DEGAUSSING	
	1-452-032-00	MAGNET, DISC; 10MM Ø	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
	1-452-277-00	MAGNET, BMC	
!	1-453-199-11	TRANSFORMER ASSY, FLYBACK (NX-1741/U2A)	
	1-504-570-11	SPEAKER (7.5X13CM)	
!	1-540-006-22	CAP ASSY, HIGH-VOLTAGE	
!	1-571-433-31	SWITCH, PUSH (AC POWER)	
!	1-765-286-11	CORD, POWER (WITH NOISE FILTER) 2.5A/250V	
	1-693-340-11	TUNER (TUVIF) (FR) (KV-21C1B)	
	1-693-338-11	TUNER (TUVIF) (AEP) (KV-21C1D/21C1E/21C1K/21C1R)	
!	8-738-784-05	PICTURE TUBE (SD-169) (A51JXH61X)	
!	8-738-787-71	ITC	
!	8-451-295-45	DEFLECTION YOKE (Y21PEA2BA)	
		**********	
		ACCESSORIES AND PACKING MATERIALS	
		**********	
	*4-042-476-01	BAG, PROTECTION	
	*4-033-049-01	CUSHION (LOWER) (ASSY)	
	*4-033-050-01	CUSHION (UPPER) (ASSY)	
	*4-033-051-01	INDIVIDUAL CARTON	
	4-203-607-51	MANUAL, INSTRUCTION (KV-21C1B)	
	4-203-607-11	MANUAL, INSTRUCTION (KV-21C1D)	
	4-203-607-71	MANUAL, INSTRUCTION (KV-21C1E)	
	4-203-607-81	MANUAL, INSTRUCTION (KV-21C1E)	
	4-203-607-91	MANUAL, INSTRUCTION (KV-21C1K/21C1R)	
		REMOTE COMMANDER	
		**********	
	1-473-194-11	COMMANDER, STANDARD TYPE (RM-836)	

9-974-948-01

Sony Corporation
Consumer A & V Products Company
TV & Display Products Div.

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